

## EXPLORATION DRILLING LOG

### MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers Price PP Test No. 1

Location 286' west of Milligan no. 5 ; N6845 E12,415.5

Elev. 559.5

Contractor Taylor Drilling Co. Drillers Rutherford and Jennings

Churn X Diamond          Commenced 11-07-48 Finished 12-13-48 T.D. 924'

From	To	Description	Formation	Assays, Remarks
0	15	Mud and boulders		
15	45	Ss whi-gray		
45	65	Sh blk sdy		
65	95	ls blk some sh becomes gray ls		
95	110	ls gray red sh 95-100		
110	130	ls shly gray arg 120-30		
130	155	ls dk gray calc veinlets 140-50		
155	160	sh sdy gray		Wb
160	185	Ss v. shly		
185	205	sh blk sdy		
205	225	ls gray-br shly red sh 205-10		VI
225	230	sh blk		
230	300	Ss gray shly to 260 mud and sh 270-75		TS
300	340	ls gray arg. shly to 310		GD
340	355	ls coarse cryst. gray shly		
355	375	Ss limey to 365		Hb
375	394	Sh sdy green-blk		
394	420	Ss gray shly to 410		
420	439	Ss gray shly 435-40		
439	465	ls gray v. shly to 450 cryst.		GoI
465	470	<del>Ss</del> sh blk limey		
470	505	ls shly arg. gray v. shly 480-85		
505	535	Ss gray fine-grained micaceous shly 525-35		
535	560	Sh blk limey and sdy		
560	575	Sh limey traces of calc 560-70		
575	605	ls gray v. shly tr. calc 600-10		
605	617	Sh blk limey		
617	690	Ss gray; blk sh 635-45; shly thruout		Cyp
690	730	Ss gray shly ptgs v. shly 713-20		
730	775	Ss gray-whi shly to 750 caved sh to 775		Beth
775	790	Ss gray-whi caving sh		
790	805	Ss gray-whi Zn shines at 805		
(see next sheet)				

Price FT

Driller

Record water encountered, cavities, faults, delays etc. on reverse side

## EXPLORATION DRILLING LOG

### MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers Price Test No. 1

Location \_\_\_\_\_

Elev. \_\_\_\_\_

Contractor \_\_\_\_\_ Drillers \_\_\_\_\_

Churn \_\_\_\_\_ Diamond \_\_\_\_\_ Commenced \_\_\_\_\_ Finished \_\_\_\_\_ T.D. \_\_\_\_\_

aF2	ZnS	Ba	805	807 $\frac{1}{2}$	Ss Spar 5%, Zn 1%-, (fissure)	a little calc (tr)					
.36	12.7	14.66	807 $\frac{1}{2}$	810	Ss spar 5-10% (fissure)	tr calc					Ren 811
5.9	9.13	6.49	810	811	Ss gray-whi	spar 20-30%; ZnS 10%; sho calc. pur. repl.					
.53	10.19	5.17	811	812 $\frac{1}{2}$	ls cherty						
.75	5.88	6.25	812 $\frac{1}{2}$	815	ls gray spar 25%; ZnS 7-8%; tr. calc; repl., ss caving						
			815	817 $\frac{1}{2}$	ls gray spar 20%; ZnS 8%; sho calc; purp. repl.						
			817 $\frac{1}{2}$	820	ls gray spar 15%; ZnS 3%; sho calc. some cavings						
			m820	830	Ls brown Zn cavings green sh to 825						
			830	832	Sh green						
			832	860	ls gray-br Zn cavings to 840 shly						
			860	885	ls br oolitic Zn shines (probably cavings) to 840 shly						
			885	908	Ss gray-green glauconitic green sh Zn shines (probably cavings)						Ros ss 885
			908	924	ls gray-whi oolitic no shines						Fred 908
				T D							

Note: water stood at 50' until drill depth 748' was reached when it dropped to 615'. Opening at 748'. Fault?

Price FT \_\_\_\_\_ Shaw Driller

Record water encountered, cavities, faults, delays etc. on reverse side

# EXPLORATION DRILLING LOG

## MINERVA OIL CO., ELDORADO, ILL.

Farm Name AMBERS PRICETest No. 2

Location N8253.5 E12,309; along fence, 840' due north of road where  
it passes the SE cor of the Ambers Price house. Elev. 539.5

Contractor Taylor Drilling Co.      Drillers Hazard and Hadley

Churn X      Diamond      Commenced 12-2-48      Finished 1-5-49      T.D. 1080

From	To	Description	Formation	Assays, Remarks
0	20	Soil mud boulders		
20	55	Ss gray shly to 30'		Csv
55	65	Ss tan shly ptgs		
65	85	Ss whi no sh		
85	105	Ss buff no sh		
105	146	Ss gray qtz peb 115-45		
146	162	Sh blk sdy limey at 160		
162	195	ls blk to br cryst shly ptgs		
195	200	sh blk-green limey		
200	210	Sh limey; 205-10 - red sh		
210	240	ls shly br-gray		
240	255	ls dense br-gray		
255	265	<del>Sh</del> sh limey sdy at 264-65		Wb <del>Sh</del> (?)
265	275	Ss gray shly		
275	295	Sh blk sdy		
295	300	Sh blk		
300	330	ls gray-br shly to 305 shly ptgs		
330	340	ls very shly br-gray		
340	345	sh blk		
345	408	Ss gray shly ptgs sh 405-08		TS
408	469	ls gray-br coarse-cryst shly to 430		GD
469	485	sh blk sdy		Hb
485	490	SS shly gray		
490	505	sh blk sdy		
505	561	Ss gray shly ptgs		Gal
561	575	ls gray-br		
575	595	ls shly dark-br very shly 580-95		
595	625	ls shly gray-br tr choc ch at 625		
625	640	sh limey blk		
640	650	ls very shly sdy at 650		
650	665	Sss gray hard fine-grained becoming sh 660-65		Cyp
665	675	Sh blk		
675	695	ls gray shly (?) (ls cavings?)		
695	700	sh limey		
700	705	Sh sdy blk to gray		
705	715	Sh sdy gray limey (?)		
715	735	Ss gray shly		

Price FT \_\_\_\_\_

Driller \_\_\_\_\_

Record water encountered, cavities, faults, delays etc. on reverse side

# EXPLORATION DRILLING LOG

## MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers Price Test No. 2

Location \_\_\_\_\_

Elev. \_\_\_\_\_

Contractor \_\_\_\_\_ Drillers \_\_\_\_\_

Churn \_\_\_\_\_ Diamond \_\_\_\_\_ Commenced \_\_\_\_\_ Finished \_\_\_\_\_ T.D. 1080

From	To	Description	Formation	Assays, Remarks
735	750	Sh blk sdy		
750	765	Ss gray shly		Cyp
765	780	Ss shly ptgs gray		
780	885	Ss gray to whi very little sh		
885	939	Ss gray to whi no sh		
939	950	Ls gray sh 939-39 $\frac{1}{2}$ No shines		Ren 939
950	1000	Ls br hard semi-ool veinlet calc		960-75
1000	1034	Ls br-gray hd cryst sub-ool		
1034	1061	Ss gr-green glauc green sh		Res Ss 1034-61
1061	1065	Ls gray purp spar 25%; ZnS 3-4%; Ba 5%; sh 15%		
		spar is clear to slightly purple		
1065	1067 $\frac{1}{2}$	Ls gray spar 20%; ZnS 4%; Ba 5%; sh 20%		
1067 $\frac{1}{2}$	1070	Ls gray ool ZnS cavings; also some spar cavings		
1070	1080	Ls gray ool ZnS cavings		
		T. D.		
Note: A crevice was encountered at 1080'; may be the same fault crevice found in holes on T. Bayne. Water dropped several feet. Water stood at 90' until 1061' was reached.				
* Includes shale $6\frac{1}{2}'$ ore from 1061-67 $\frac{1}{2}$				

Assay:  
 AT ZnS Ba\*  
 1.5 7.06 3.4  
 .24 3.07 20.75  
 25.74  
 134.0  
 36  
 170.0  
 28.5  
 5

Price FT \_\_\_\_\_ Driller \_\_\_\_\_

Record water encountered, cavities, faults, delays etc. on reverse side

## EXPLORATION DRILLING LOG

### MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers Price Test No. 3

Location 240' N43E DH # 2

Property \_\_\_\_\_ Angle Vertical \_\_\_\_\_ Elev. 563.4

Contractor \_\_\_\_\_ Drillers Price and Rutherford

Depth Churn \_\_\_\_\_ Depth Diamond \_\_\_\_\_ Commenced 10-28-49 Finished 12-4-49 T.D. 1020

From	To	Description	Formation	Ore Est., Remarks
0	4	soil boulders		No water drop at Renault or Fred contact.
4	70	ss gray shly ptgs to 15	crse gr	
70	100	ss whi-gray fine		
100	130	ss gong. qtz peb		Water stds 170'
130	151	ss whi-gray		
151	175	ls dk gray shly 151-55		
175	235	ls shly dk gray fine		
235	255	ls dk gray fine		
255	268	ss shly gray		
268	300	sh gray-blk calcite traces	freq.	
300	330	ls gray shly 315-30		
330	392	ss gray shly		TS
392	480	ls gray arg cryst		GD
480	501	sh gray-blk		
501	540	ss gray		Hdbg
540	550	ls gray-tan crvst		Gol
550	570	sh gray-blk		
570	600	ls shly 585-600 gray fine		
600	601	sh choc		
601	638	ls sdy 601-10 shly		
638	645	sh gray-blk		
645	680	ls shly gray-blk fods dense		
680	715	ls very shly dense blk		
715	740	ss shly fine v shly 715-30		
740	899	ss gray to whi shly 740-55	hard	880-99
899	929	ls gray hrd no shines		water did not drop no
929	936	sh at contact br "rock" at contact		Ren 899
936	950	sh gray-green limey		Shet
950	974	ls br sub-ool pink grains	cryst	Lev
974	1007 $\frac{1}{2}$	ss gray-green limey little	sh	Ros
1007 $\frac{1}{2}$	1010	ls oolitic whi-gray Spar	10-15%;	Zn 3-4% repl.
1010	1011	ls same		
1011	1020	ls whi oolitic Zn cavings		
		T.D.		

Price Ft. \_\_\_\_\_ Driller \_\_\_\_\_

Assay: Fredonia ore Record water encountered, cavities, faults, delays, etc. on reverse side

1007 $\frac{1}{2}$ -1010	spar	14.54	Zn 3.64	Ba 8.96	SiO <sub>2</sub> 32.14
1010-1015		18.28	5.71	3.37	11.54

ovr 7% H 17.0 5.0

**EXPLORATION DRILLING LOG**  
**MINERVA OIL CO., ELDORADO, ILL.**

Farm Name Ambers Price

Test No. 4

Location 630' N54°E DH #3; on edge of field above branch - land line Price-Blakely

Property \_\_\_\_\_ Angle Vertical Elev. \_\_\_\_\_

Contractor Taylor Drlg Co. Drillers Price and Rutherford

Depth Churn total Depth Diamond \_\_\_\_\_ Commenced 12-5-49 Finished 12-30-49D. 1020

From	To	Description	Formation	Ore Est., Remarks
0	5	Soil and gravel		
5	55	ss gray shly		
55	75	ss very shly gray		
75	140	ss gray crse		
140	145	sh blk		
145	245	ls dk gray to blk dense to foss calc veinlets 205-20	cryst	shly cavings
245	250	sh blk limey		
250	275	ss gray v, shly		
275	300	sh sdy blk-gray		
300	323	ls dk gray cryst shly lower part		
323	388	ss gray shly		Tar Springs
388	440	ls light gray shly ptgs		Glen Dean
440	465	Ss fine gray shly		Hdbg
465	485	sh gray tr red sh at 470-75	sdv	
485	540	ss shly fine		
540	555	ls gray-tan fine		Golconda for
555	570	ls dk gray shly dense		
570	620	ls gray-tan fine choc sh at 600		
620	635	ss gray shly fine		
635	640	sh gray-blk limey		
640	665	ls shly speckled gray		
665	685	ls gray-blk shly tr calc		
685	701	sh blk		
701	750	ss shly gray		Cypress
750	785	ss gray-whi		
785	888(SLM)	ss shly to 850 gray		Renault 888
888	920	ls gray hard no shines		
920	930	ls gray fine cryst with about 10% green sh		
930	954	ls gray with gray sh hard		
954	976	ls gray-tan pink grains		Levias
976	1003	ss gray-green		Rosiclare
1003	1005	ls dk brown firm to hard		
1005	1010	ls whi well-formed oolites	no shines	strong
1010	1020	ls whi-gray less colitic. Firm.	odor of gas dead oil (?) in pores	
	T.D.			

Price FT. \_\_\_\_\_

Driller \_\_\_\_\_

Record water encountered, cavities, faults, delays, etc. on reverse side

*Volume  
 2 1/2 following  
 700 serial log  
 Price-Blakely*

## EXPLORATION DRILLING LOG

### MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers Price Test No. 5  
 Location 25' north of old road on edge of Frailey's field.  
60' east of old road cor. across from Harley Milligan's house.

Property \_\_\_\_\_ Angle \_\_\_\_\_ Elev. 621.0 (ground)

Contractor Taylor Drilling Co. Drillers Price and Rutherford

Depth Churn \_\_\_\_\_ Depth Diamond \_\_\_\_\_ Commenced 12-31-49 Finished 2-4-50 T.D. 951' SLM

From	To	Description	Formation	Ore Est., Remarks
0	10	Soil and losse rock		
10	35	ss weathered, brown		
35	60	ss tan		
60	80	ss tan qtz peb		
80	120	ss tan-gray		
120	130	sh sdy blk		
130	170	ls blk-gray calc v. freq.	shly	Men
170	185	ls shly br		
185	260	ls br-gray fine		
260	305	sh gray-blk limey		
305	360	ss gray		Tar Springs
360	370	sh sdy blk		
370	440	ls gray shly lower part		Glen Dean
440	460	ss gray shly hdbg ss		Hardinsburg
460	470	sh red sdy		
470	521	ss gray fine		
521	570	ls gray-blk shly		Golconda
570	594	ls same		
594	600	sh blk-gray		
600	615	ls dk-gray shly ptgs		
615	620	sh choc		
620	630	sh gray-blk limey		
630	650	ls gray-br shly		
650	685	ls br-gray shly fine		
685	694	sh gray-blk		
694	715	ss gray shly fsg job at 715		
715	880	ss gray to gray-whi		
880	890	ls gray hd v little sh granular friable foss no calc no shines		Ren 880 SLM
890	895	ls same but with gray chert		
895	906	ls gray-br crse-cryst		
906	915	ls & sh ls is gray sh is green-gray		ft tr Zn 905-10?
915	935	ls gray-br caving sh to 25 sub-cool		25-35
935	951	ls br pink grains no shines fsg job at 951.		
	T.D.			
Water		stands at 160 feet; did not drop at		Ren contact.

Price FT. \_\_\_\_\_

Driller \_\_\_\_\_

Record water encountered, cavities, faults, delays, etc. on reverse side

100% 21/2

**EXPLORATION DRILLING LOG**  
**MINERVA OIL CO., ELDORADO, ILL.**

Farm Name A. Price Test No. 5

Location Hardin, County, Ill.

Property \_\_\_\_\_ Angle \_\_\_\_\_ Elev. \_\_\_\_\_

Contractor Wm Taylor Drilling Co. Drillers John Price, B. Rutherford.

Depth Churn X \_\_\_\_\_ Depth Diamond \_\_\_\_\_ Commenced 1-3-1950 Finished 2-3-1950 D. 951 ft.

From	To	Description	Formation	Ore Est., Remarks
0	10	soil & clay		
10	130	sand		
130	170	lime		
170	182	lime & shale		
182	232	lime		
232	281	sandy shale		
281	291	lime		
291	305	shale		
305	370	sand		
370	428	lime		
428	432	sandy shale		
432	463	sand		
463	465	chocolate shale		
464	475	lime & shale		
475	520	sand		
520	555	lime		
555	563	lime & shale streaks.		
563	580	lime		
580	585	lime & chocolate shale		
585	605	lime & shale		
605	630	shale		
630	640	lime & shale		
640	650	lime & shale		
650	670	sand		
670	695	sandy shale		
695	880	sand		880 S. L. M.
880	951	lime		

Price FT. \$2.10

Driller \_\_\_\_\_

Record water encountered, cavities, faults, delays, etc. on reverse side

## EXPLORATION DRILLING LOG

### MINERVA OIL CO., ELDORADO, ILL.

Farm Name Ambers PriceTest No. 6Location 120' north and 50' west of DH #5.

Property	Angle	Elev.
Contractor <u>Taylor Drilling Co.</u>	Drillers <u>Price and Rutherford</u>	
Depth Churn	Depth Diamond	Commenced <u>2-5-50</u> Finished <u>3-1-50</u> T.D. <u>950'</u>

From	To	Description	Formation	Ore Est., Remarks
0	20	Soil and losse rock		Water stds at 160
20	35	ss brown-tan		Hit water at 170
35	55	Ss brown-weathered ( water-course)		No change at Ren
55	135	ss tan to whi-gray Qtz peb	105-15	
135	150	sh blk sdy		
150	185	ls dk gray to blk Cryst	shly to	165
185	200	ls fine-grained shly		
200	230	ls cryst fine shly br-gray		
230	255	ls blk-gray cryst		
255	286	sh blk-gray limey		
286	303	ls gray shly fine cryst		
303	320	sh limey blk-gray		
320	380	ss gray shly		Tar Springs Glen Dean
380	435	ls gray cryst arg		
435	445	sh gray sdy		
445	490	sh limey red sh at 470-80		
490	536	ss gray shy		Hardinsburg
536	550	sh sdy gray		
550	560	ls gray v. shly		
560	575	sh limey		
575	590	ls gray shly		
590	595	sh choc		
595	615	sh gray sdy		
615	650	ls gray shly fine cryst		
650	680	ls same		
680	695	sh blk		
695	720	ss gray shly		
720	740	ss gray fine shale laminae		
740	850	ss whi-gray fine shly 775-85		
850	891	ss whi hard		
891	921	ls gray v. little sh no shines sh cavings		Ren 891
921	930	Green sh with interbedded limestone (br.)		
930	950	ls gray-brown no shines		
	T.D.			

Price FT.

Driller

Record water encountered, cavities, faults, delays, etc. on reverse side