

CHISHOLM PARTNERS—

Scale 1:240 Imperial

Well Name: CHANDLER #1-1

Surface Location: SW SW SW Sec. 1 - 6S -22W

Bottom Location:

API: 15-065-24045-00-00

License Number: 34622

Spud Date: 6/3/2014 Time: 2:15 PM

Region: GRAHAM COUNTY KANSAS

Drilling Completed: 6/8/2014 Time: 5:23 PM

Surface Coordinates: 330' FSL & 330' FWL

Bottom Hole Coordinates:

Ground Elevation: 2206.00ft K.B. Elevation: 2211.00ft

Logged Interval: 3100.00ft To: 3770.00ft

Total Depth: 3770.00ft

Formation: OREAD, LANSING-KANSAS CITY

Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: CHISHOLM PARTNERS II, LLC

Address: 1010 10TH ST

GOLDEN, CO 80401

Contact Geologist: RICHARD MCKEE Contact Phone Nbr: (620) 968-7741

Well Name: CHANDLER #1-1

Location: SW SW SW Sec. 1 - 6S -22W API: 15-065-24045-00-00

Field:

ALMENA

Pool:

State: Kansas Country: USA

SURFACE CO-ORDINATES

Well Type: Vertical

Longitude: -99.7308764 Latitude: 39.5543789

N/S Co-ord: 330' FSL E/W Co-ord: 330' FWL

LOGGED BY

Company: BIG CREEK CONSULTING, INC

Address: 1909 MAPLE ELLIS, KS 67637

Phone Nbr: (785) 259-3737

Logged By: Geologist Name: JEFF LAWLER

CONTRACTOR

Contractor: WW DRILLING, LLC

Rig #: 6

Rig Type: MUD ROTARY

Spud Date: 6/3/2014 Time: 2:15 PM

TD Date: Time: 6/8/2014 5:23 PM Rig Release: 6/9/2014 2:00 PM Time:

ELEVATIONS

K.B. Elevation: 2211.00ft Ground Elevation: 2206.00ft

K.B. to Ground: 5.00ft

NOTES

THE CHANDLER #1-1 RAN LOW THROUGH THE ANHYDRITE THEN BEGAN AND CONTINUED TO THICKEN THROUGHOUT. CORRELATION WELL WAS NORTHERN LIGHT'S MARIE #1 IN SECTION 12 - 6S - 33W. ONCE THROUGH GORHAM SAND SECTION A THICK CONGLOMERATE SHALE BENCH WAS ENCOUNTERED. THE MARIE #1 PENETRATED GRANITE WASH BELOW THE GORHAM SAND INDICATING A HIGH BASEMENT RIDGE WITH AN EAST-WEST TREND RESULTING IN THE SPRINGBIRD, MARIE, & BOYS WEST FIELDS SOUTH OF THE CHANDLER #1-1.

DUE TO STRUCTUAL POSITION AND LACK OF ECONOMICAL RECOVERY ON 3 DST'S IT WAS SUGGESTED AND ELECTED TO PLUG AND ABANDON THE CHANDLER #1-1.

RESPECTFULLY SUBMITTED, JEFF LAWLER

DST #1 LKC C D 3494' - 3530'



DRILL STEM TEST REPORT

Chisolm Partners II L.L.C

SEC. 1 - 06 s. - 22 w./Graham

1010 TENTH ST. GOLDEN COLORADO Chandler #1-1

Unit No:

80401

Job Ticket: 55288 DST#: 1

67

ATTN: Jeff Law ler / Richar Test Start: 2014.06.06 @ 23:00:00

GENERAL INFORMATION:

L.KC. " C & D" Formation:

Deviated: No Whipstock ft (KB) Conventional Bottom Hole (Initial) Test Type:

Time Tool Opened: 02:16:30 Tester: Bob Hamel

Time Test Ended: 06:23:30

Interval: 3494.00 ft (KB) To 3530.00 ft (KB) (TVD) Reference Bevations: 2211.00 ft (KB) 2206.00 ft (CF)

Total Depth: 3530.00 ft (KB) (TVD)

Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 5.00 ft

Serial #: 8679 Inside

Press@RunDepth: 21.29 psig @ 3497.00 ft (KB) 8000.00 psig Capacity: Start Date: 2014.06.06 End Date: 2014.06.07 Last Calib.: 2014.06.07 Start Time: 23:00:01 End Time: 06:23:30 Time On Btm: 2014.06.07 @ 02:15:00 Time Off Btm: 2014.06.07 @ 04:40:30

TEST COMMENT: I.F. - 45 - 1/4" INT. BLOW W/ NO BUILD

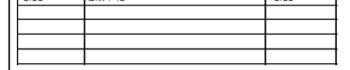
I.S.I - 60 - NO B.B.

F.F. - 30 - NO BLOW FLUSHED TOOL @TEN MIN WAITED 15 MIN FOR BLOW PULLED TEST TOOL

F.S.I. - N/A -

	Pressure vs. Time	-		PI	RESSUF	RE SUMMARY	
500 500 500 500 70 70 70 70 70 70 70		100 mm m	Time (Min.) 0 2 48 109 109 140 146	Pressure (psig) 1658.88 15.24 21.29 564.34 23.31 29.85 1619.73	Temp (deg F) 102.21 101.99 102.32 103.44 103.06 103.77 104.51	Shut-ln(1) End Shut-ln(1)	
	Recovery			•	Ga	s Rates	
Length (ft)	Description	Volume (bbl)			Choke (i	nches) Pressure (psig)	Gas Rate (Mcf/d)

Length (ft)	Description	Volume (bbl)
15.00	S,O,C,M 3%O 97%M	0.07
0.00	GIP 45'	0.00



Trilobite Testing, Inc Ref. No: 55288 Printed: 2014.06.07 @ 09:53:30

DST #2 LKC H - I 3585' - 3632'



DRILL STEM TEST REPORT

Chisolm Partners II L.L.C

SEC. 1 - 06 s. - 22 w./ Graham

1010 TENTH ST. GOLDEN COLORADO Chandler #1-1

80401

Job Ticket: 55289 DST#: 2

ATTN: Jeff Law ler / Richar

Test Start: 2014.06.07 @ 17:30:00

GENERAL INFORMATION:

L.K.C. " H & I " Formation:

Deviated: Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset) No

Time Tool Opened: 20:25:30 Tester: BOB HA MEL

Time Test Ended: 23:43:30

Unit No:

3585.00 ft (KB) To 3632.00 ft (KB) (TVD) Reference Bevations: 2211.00 ft (KB) Interval:

Total Depth: 3632.00 ft (KB) (TVD) 2206.00 ft (CF)

Hole Diameter: KB to GR/CF: 5.00 ft 7.88 inchesHole Condition: Fair

Serial #: 8679 Inside

Press@RunDepth: 45.56 psig @ 3623.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.06.07 2014.06.07 End Date: Last Calib .: 1899.12.30

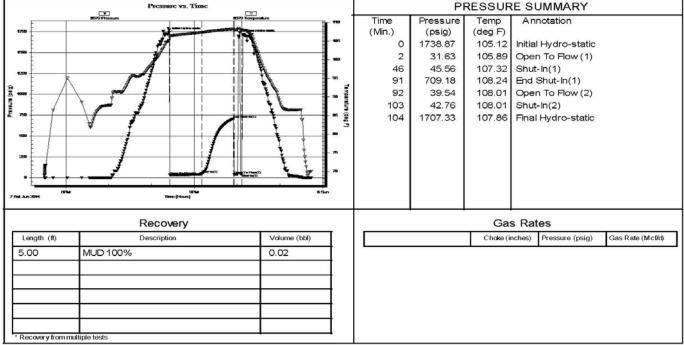
Start Time: 17:30:01 End Time: 23:43:30 Time On Btm: 2014.06.07 @ 20:24:00 Time Off Btm: 2014.06.07 @ 22:08:00

TEST COMMENT: I.F. - 40 - W.S.B DIED IN 36 MIN.

I.S.I. - 45 - NO B.B.

F.F. - 15 -NO BLOW FLUSHED TOOL @ 5 MIN. THEN PULLED TEST

F.S.I. - N/A



Printed: 2014.06.08 @ 01:29:34 Trilobite Testing, Inc Ref. No: 55289



DRILL STEM TEST REPORT

Chisolm Partners II L.L.C

SEC. 1 - 06 s. - 22 w./ Graham

1010 TENTH ST. GOLDEN COLORADO Chandler #1-1

80401

Job Ticket: 55290

DST#: 3

ATTN: Jeff Lawler / Richar

ft (KB)

Test Start: 2014.06.08 @ 09:15:00

GENERAL INFORMATION:

Formation: Deviated:

Cong. Sand

No Whipstock:

Test Type:

Conventional Bottom Hole (Reset)

Time Tool Opened: 10:50:00 Time Test Ended: 14:11:00

Tester: Bob Hamel

Unit No: 67

Interval:

3700.00 ft (KB) To 3740.00 ft (KB) (TVD)

Reference Elevations:

2211.00 ft (KB)

Total Depth:

2206.00 ft (CF)

3740.00 ft (KB) (TVD)

5.00 ft

Hole Diameter:

7.88 inches Hole Condition: Fair

KB to GR/CF:

Serial #: 8679 Press@RunDepth: Inside

20.35 psig @ 3734.00 ft (KB)

Capacity: 2014.06.08

Last Calib.:

8000.00 psig

Start Date: Start Time:

2014.06.08 09:15:00

End Date: End Time:

14:11:00

Time On Btm:

1899.12.30 2014.06.08 @ 10:49:00

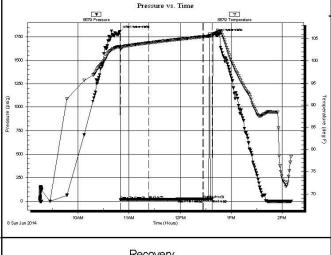
Time Off Btm:

2014.06.08 @ 12:38:30

TEST COMMENT: I.F. - 30 - 1/4" INT BLOW DIED IN 30 MIN.

I.S.I. -60 - NO B.B.

F.F. - 10 - FLUSHED TOOL @ 5 MIN. NO BLOW PULLED TOOL



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1800.09	103.22	Initial Hydro-static
1	16.25	102.67	Open To Flow(1)
35	20.35	104.07	Shut-In(1)
98	24.91	105.43	End Shut-In(1)
98	20.32	105.44	Open To Flow(2)
109	21.99	105.62	Shut-In(2)
110	1769.90	106.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD 100%	0.02
		ì
* Recovery from	multiple tests	

Gas Rates

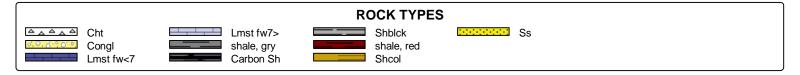
Choke (inches)	Pressure (psig)	Gas Rate(Mcf/d)

Trilobite Testing, Inc

Ref. No: 55290

Printed: 2014.06.08 @ 15:14:50

N N						RN LIGHTS	OIL C	OMP	YNA		NOTHERN LIGHTS OIL COMPANY					BAIRD OIL CO, LLC						RITCHIE EXPLOR., INC.					
MARIE #1						HENRY#1					AL	MENA STA	l-1		MIKEL ARY #1												
		CHAND	LER#1-1		N2	NW SW N	W 12	-6-22			NE SE NE 12-6-22					SE NW SW NW 1-6-22						NE NE SW 12-6-22					
1	KB	2211	GL	2206	КВ		2	2221 H		KB 2228			KB 2299						КВ			2240					
	LOG	TOPS	SAMPLETOPS		COMP. C	OMP. CARD LOG		SMPL.		GEOREPORT		LOG SMPL.		COMP. CARD		LOG		SMPL.		COME	.CARD	LOG		SMPL.			
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CC	DRR.	co	RR.	DEPTH	EPTH DATUM CORR. CORR.		DEPTH	EPTH DATUM		CORR. CORF		RR.	DEPTH	DATUM		RR.	CORR.			
ANHYDRITE TOP	1876	335	1876	335	1874	347		12	ì	12	1883	345	1	10	1	10	1960	339	7.00	4	-	4	1898	342	-	7	- 7
BASE	1909	302	1909	302	1907	314	-	12	-	12	1915	313	-	11	-	11	1989	310		8	2	8	1930	310	27	8	- 8
HOWARD	3206	-995	3202	-991																				_			
TOPEKA	3233	-1022	3235	-1024	3216	-995	-	27	į.	29	3224	-996	į.	26	3	28	3312	-1013	-	9	ï	11	3269	-1029	.+	7	+ 5
OREAD A	3395	-1184	3391	-1180	3369	-1148	-	36)	32																	
OREAD B	3410	-1199	3408	-1197	3384	-1163	-	36	(1	34																	
HEEBNER	3435	-1224	3436	-1225	3413	-1192	-	32	I,	33	3423	-1195	1	29	+	30	3508	-1209		15	ı	16	3460	-1220	-	4	- 5
TORONTO	3461	-1250	3461	-1250	3437	-1216	=3	34	100	34	3447	-1219		31	9	31	3534	-1235	10.00	15	ï	15	3485	-1245	73	5	- 5
LKC	3479	-1268	3481	-1270	3455	-1234	T.	34	1	36	3463	-1235	Ť	33	1	35	3551	-1252		16	í	18	3501	-1261	4	7	- 9
BKC	3670	-1459	3674	-1463	3646	-1425	-	34	(0	38	3654	-1426	10	33	-	37	3740	-1441		18	74	22	3689	-1449	27	10	- 14
CONG. SAND	3727	-1516	3725	-1514	3694	-1473	-	43	10	41	3704	-1476	1	40		38	3792	-1493	-	23	-	21					
GRANITE					3712	-1491																					
TOTAL DEPTH	3769	-1558	3770	-1559	3717	-1496	9	62	3	63	3731	-1503	100	55	1	56	3845	-1546	-	12	1	13	3717	-1477	2	81	- 82



ACCESSORIES

MINERAL

Sandy

OTHER SYMBOLS

