

**OPERATOR**

Company: Gore Oil Co.  
 Address: 202 S. St. Francis St  
 Wichita, KS 67202

Contact Geologist: Chuck Schmaltz  
 Contact Phone Nbr: 316-461-0431  
 Well Name: Arleta #1-27  
 Location: Sec. 27-11s-21w  
 API: 15-195-23128-0000  
 Pool: Infield  
 State: KS

Field: Zemen North  
 Country: USA

**Scale 1:240 Imperial**

Well Name: Arleta #1-27  
 Surface Location: Sec. 27-11s-21w  
 Bottom Location:  
 API: 15-195-23128-0000  
 License Number:  
 Spud Date: 11/8/2021 Time: 11:44 AM  
 Region: Trego Co.  
 Drilling Completed: Time:  
 Surface Coordinates: 2520' FNL & 450' FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 2305.00ft  
 K.B. Elevation: 2310.00ft  
 Logged Interval: 3250.00ft To: 0.00ft  
 Total Depth: 0.00ft  
 Formation: Arbuckle  
 Drilling Fluid Type:

**SURFACE CO-ORDINATES**

Well Type: Vertical  
 Longitude: 0  
 Latitude: 0  
 N/S Co-ord: 2520' FNL  
 E/W Co-ord: 450' FWL

**LOGGED BY**

Company:  
 Address: 38056 O Rd  
 Ellis, KS 67637  
 Phone Nbr: 620-428-1356  
 Logged By: Geologist Name: Marc Downing

**CONTRACTOR**

Contractor: Murfin  
 Rig #: 16  
 Rig Type: Rotary  
 Spud Date: 11/8/2021 Time: 11:44 AM  
 TD Date:  
 Rig Release: Time:

**ELEVATIONS**

K.B. Elevation: 2310.00ft Ground Elevation: 2305.00ft  
 K.B. to Ground: 5.00ft

**NOTES****Structural Comparison:**

|                |                     |                       |
|----------------|---------------------|-----------------------|
|                | Liberty Enterprises | Gore Oil Co           |
|                | Lynd #1             | Lynd #7               |
|                | SE SE NE            | 2310' FSL & 1320' FEL |
|                | Sec. 28-11s-21w     | Sec. 28-11s-21w       |
| Top Anhydrite  | 1753 (+557)         | -1                    |
| Base Anhydrite | 1802 (+508)         | -3                    |
| Toneka         | 3363 (-1053)        | +6                    |
|                |                     | -3                    |

|               |              |     |    |
|---------------|--------------|-----|----|
| Heebner       | 3574 (-1264) | +10 | -5 |
| Toronto       | 3593 (-1283) | +15 | -3 |
| LKC           | 3610 (-1300) | +12 | -4 |
| BKC           | 3845 (-1535) | +21 | +2 |
| Marmaton      | 3899 (-1589) | +14 | +3 |
| RWKD Arbuckle | 3930 (-1620) |     |    |
| Arbuckle      | 3937 (-1627) | +35 | +2 |

### ROCK TYPES

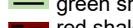
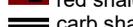
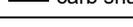
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|--|---------|---|-----------|---|------------|--|------------|
|  | Dolprim |  | Lmst fw7> |  | shale, gry |  | shale, red |
|  | Dolsec  |  | shale, gm |  | Carbon Sh  |  |            |

### ACCESSORIES

#### MINERAL

- ▲ Chert, dark
- △ Chert White

#### STRINGER

-  Dolomite
-  Sandstone
-  green shale
-  red shale
-  carb shale

### OTHER SYMBOLS

#### OIL SHOWS

- Even Stn
- Spotted Stn 50 - 75 %
- Spotted Stn 25 - 50 %
- Spotted Stn 1 - 25 %
- Questionable Stn
- D Dead Oil Stn
- Fluorescence

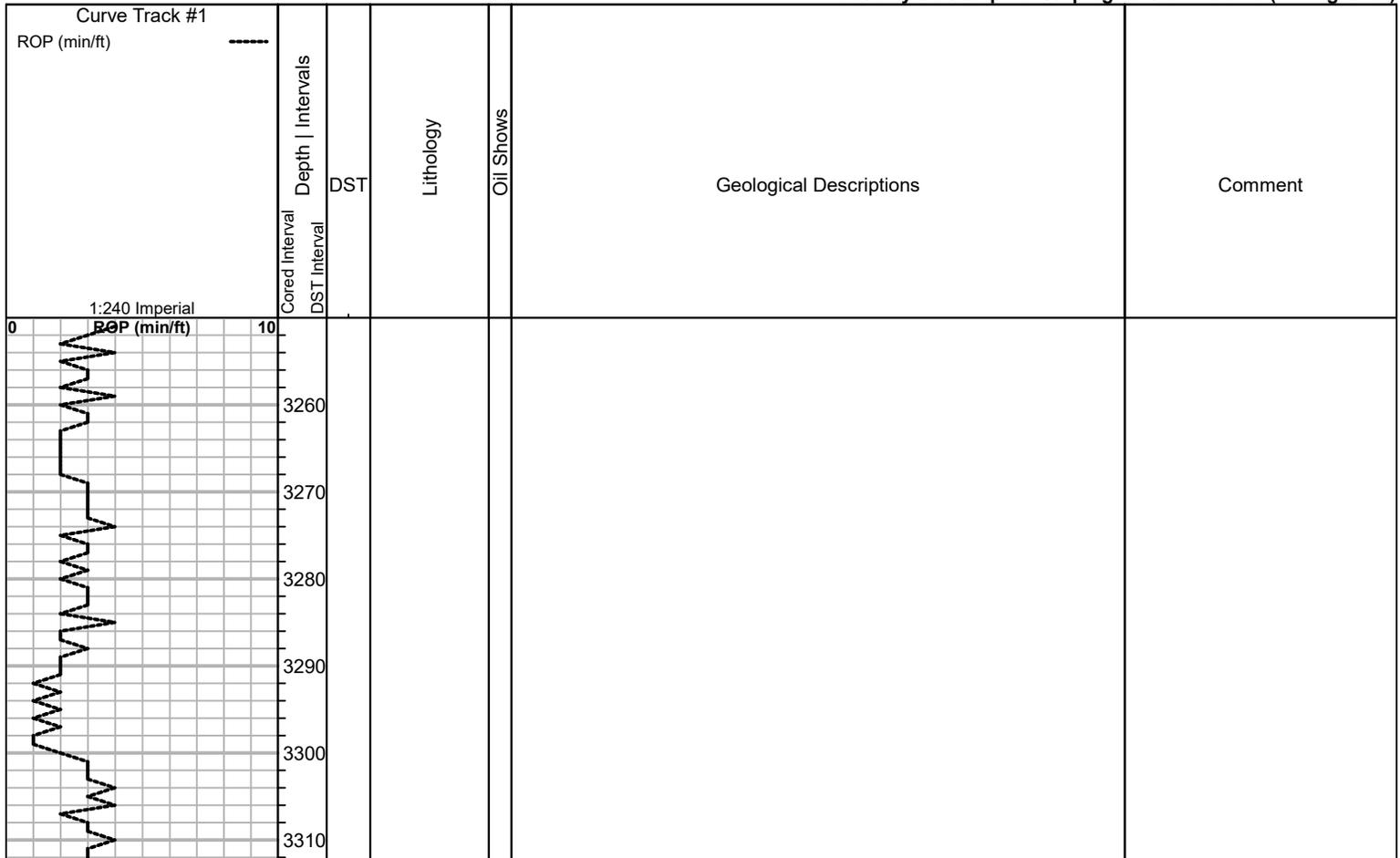
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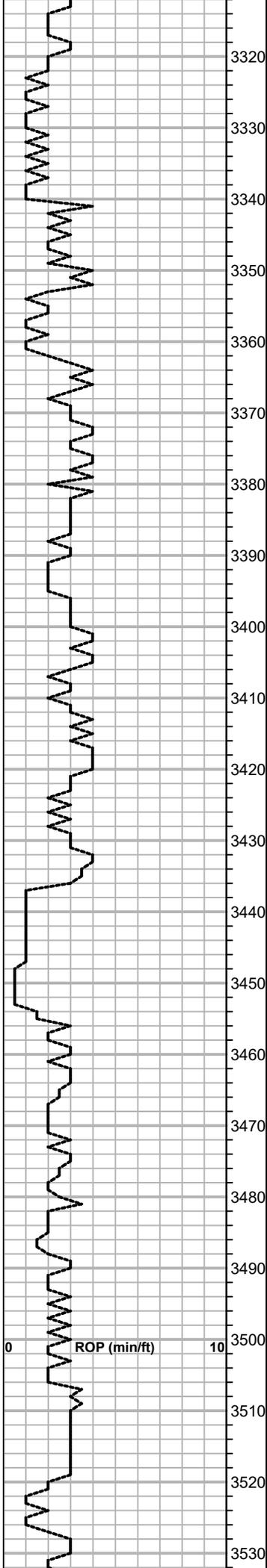
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-  Digital Photo
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-  Folder
-  Link
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-  Horizontal Log File
-  Core Log File
-  Drill Cuttings Rpt

#### DST

-  DST Int
-  DST alt
-  Core
-  tail pipe

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Sh: gry

Topeka 3363 (-1053)

LS: tan-wht, fn xln. Few subxln rx, mostly dns w/ pr por. 1 pc w/ pr stn on edge, NSFO, no od.

LS: wht, dns, pr por.

Sh: gry

LS: wht, fn xln. Scat intxln and pp por, mostly chlky. Mostly barren w/ no od, 1-2 rx w/ spttd SFO in pp por in base of zone.

Sh: Black Carb

Sh: gry

LS: tan-wht, fn xln, foss. Pr por and dns, scat tan cht. All NS.

Sh: gry

LS: tan, mtld in prt, w/ tan shp cht. All NS.

LS: tan-brn, fn xln, v suc-dolomitic. Fr-gd intxln por, fr amt wht chlky rx. 1-2 rx w/ pr resid stn, NSFO, no od. Rest totally barren.

Sh: Black Carb

Sh: gry

LS: wht, vfn-mic xln. Mostly dns w/ no vis por, scat subxln rx. All NS.

LS: some ala, more chlky rx. Fr amt wht foss cht. Trng mostly dns w/ pr por, all NS.

Sh: gry

LS: tan, fn-md xln, dns

Sh: Black Carb

LS: wht-tan, fn-md xln, dns.

LS: wht-tan, md xln, dolomitic. Gd intxln por w/ scat sml vugs, few subxln rx. Scat fr-gd sat stn w/ fr-gd SFO, fr amt barren por, fr-gd od. Trng tan-brn w/

more foss, less por and less show, still fr-gd od.

Sh: gry

LS: wht, fn-md xln. Many chlky rx, scat intxln por. Totally barren w/ no od.

LS: tan, md xln, trng mtd. Scat subxln-chlky rx w, totally barren.

LS: ala w/ inc amt wht foss cht.

Heebner 3574 (-1264)

Sh: Black Carb

Sh: grn w/ gry

Toronto 3593 (-1283)

LS: wht-tan, fn-md xln, scat pyt. Scat fr intxln and pp por w/ fr sat and SFO, sltly hvy. Fr amt chlky rx w/ uneven stn, many barren. Fnt-lt od.

LKC 3610 (-1300)

LS: few pcs ala, prob carry. Trng wht, ool, fr-well cem. Pr-fr int ool por, lt brn stn in por, rare spttd SFO, fnt-no od.

LS: wht, fn-vfn xln, suc in prt. Scat gd intxln por w/ rare resid stn, poss rnbw sheen, NSFO, no od. Abnt shp cht, tan-wht.

Sh: black carb

Sh: gry w/ grn and brn

LS: wht, mostly tot ool. Gd int ool and vug por, friable, w/ gd lt brn sat stn and fr-gd SFO in por. Fr-gd od. Fr amt barren chlky rx.

Sh: gry

LS: wht, fn-vfn xln. Fr amt subxln-chlky rx, rest pr por and dns. All NS, no od.

Sh: drk gry

Sh: gry w/ brn

LS: wht-tan, 2-3 rx w/ lrg ool and foss. Fr vug por w/ fr-gd sat stn and fr-gd SFO in por. Fr amt barren subxln rx, rest dns w/ pr por and NS. Lt-fr od.

LS: wht, md xln, sltly dolomitic, few sml foss. Gd vug por w/ scat hvy blk SFO in por. Many barren chlky rx, fr od.

LS: wht, fn-vfn xln. Mostly dns w/ pr por, fr amt subxln-chlky rx. Totally barren, no od.

LS: wht, fn-vfn xln. Fr amt dns rx w/ many subxln-chly rx.

LS: some ala, much shp foss cht, tan-wht-gry. All NS, no od.

Sh: black Carb

Sh: gry

LS: wht, fn-vfn xln. Many barren chlky rx, scat fr pp por w/ pr-fr brn uneven stn, rare spttd SFO, fr od.

Vis: 65 Wt: 9.0

**DST #1  
3570-3638  
30-60-60-90**

I.F. - BOB 29 min / no SIB  
F.F. - BOB 25 min / 1 3/4" SIB  
IFP: 19-49  
FFP: 44-84  
SIP: 960-915  
HP: 1766-1621  
Rec:  
215' GIP  
10' CO  
30' GOCM (5% g, 15% o)  
63' GOCWM (5% g, 15% o, 10% w)  
63' GOCMW (5% g, 5% o, 50% w)  
BHT: 110 Chlor: 26K

**DST #2  
3634-3660  
30-60-30-60**

I.F. - BOB 10 min / no SIB  
F.F. - BOB 11 min / no SIB  
IFP: 26-162  
FFP: 168-274  
SIP: 1003-988  
HP: 1754-1636  
Rec:  
2' CO  
524' MCW (90% w)  
BHT: 116 Chlor: 43K

Vis: 53 Wt: 8.8

**DST #3  
3672-3711  
30-60-60-90**

I.F. - 4.5"  
F.F. - 6.75"  
IFP: 16-38  
FFP: 40-62  
SIP: 571-563  
HP: 1773-1655  
Rec:  
2' CO  
45' MCW (70% w)  
63' WCM (20% w)  
BHT: 112 Chlor: 32K

Vis: 52 Wt: 9.0

**DST #4  
3729-3759  
30-60-30-60**

I.F. - 1.5"  
F.F. - .25"  
IFP: 16-23  
FFP: 30-35  
SIP: 1261-1238  
HP: 1814-1717

3540  
3550  
3560  
3570  
3580  
3590  
3600  
3610  
3620  
3630  
3640  
3650  
3660  
3670  
3680  
3690  
3700  
3710  
3720  
3730  
3740  
3750

DST #1



CFS 3638'

DST #2



CFS 3660'

DST #3



CFS 3711'

DST #4



por: 5' pr fr brn uneven stn, rare spttd SFO, fr od.

Rec: 5' mud w/ oil spots  
BHT: 108

Sh: gry

Sh: gry

LS: wht, fn-vfn xln, fr intxln por, frac in prt, w/ fr lt brn sat stn and spttd SFO. Scat subxln rx w/ uneven stn, 2-3 rx w/ fr vug por, fr-gd brn stn and fr SFO. Fr-gd od.

Sh: gry

LS: wht, fn-md xln, subxln-chlky. Scat intxln and pp por, fr brn sat stn, uneven in prt, w/ spttd SFO. Fr od, rnbw stn on cup.

Sh: Black Carb

LS: wht-tan, md xln. Fr pp por, many dns rx, w/ hvy black stn, rare hvy SFO. Fnt-no od. Rest trng subxln-chlky and then dns w/ depth. Turned totally barren w/ no od.

Sh: Black Carb

Sh: gry

LS: tan-wht, md xln, few foss. No vis por, chlky in prt, all NS.

BKC 3845 (-1535)

Sh: brn-red w/ gry, arg in prt.

LS: tan, fn-md xln, dns

Sh: brn w/ some gry

LS: wht-tan, mostly ala.

Sh: red-brn

Marmaton 3899 (-1589)

LS: wht-tan, fn xln, suc. Dns w/ no vis por, NS.

LS: tan-brn fn xln, suc-dolomitic. Fr intxln por w/ few sml vugs and pp por, faily tite. Fr-gd lt brn sat stn w/ scat spttd SFO when broken. Fr-gd od. Fr amt shp cht, tan, org, wht. Trng dns w/ no vis por and NS w/ depth

Sh: drk gry w/ some blk carb

Arbuckle 3937 (-1627)

Dolo: wht-lt tan, md-crs rhom xln, fr vug por, some tite, w/ scat fr sat stn and fr SFO. Much sndy dolo, few clust, fn-md grn, mostly sub-ang w/ few lrg rnd grains, fr sort. Fr-gd IG por, friable, w/ gd lt brn sat stn and fr-gd SFO. Fr-gd od. Trng less sndy w/ much v chlky LS.

Dolo: tan-brn, md-crs rhom xln. Gd vug por w/ gd sat and gd SFO. Few suc rx w/ vgd sat and SFO, all good-strong od. Free oil on cup. Rx trng less por w/ depth and less show, scat shp wht cht.

Dolo: Wht, md rhom xln, w/ scat fr vug por, friable in prt, w/ fr-gd sat stn and SFO. Trng md-crs rhom xln, mostly tite w/ pr por. Pr-fr stn w/ spttd SFO, fr-gd od.

Dolo: tan-wht, md-crs rhom xln. Scat fr-gd vug por w/ f-gd sat stn and fr-gd SFO, friable in prt. Many tite rx w/ pr por, fr sat stn and SFO, gd od. Rx trng wht-tan, more crs rhombs. Scat gd vug por w/ fr-gd sat stn and SFO, still many tite rx. Gd od.

Vis: 65 Wt: 9.0

**DST #5**  
**3754-3830**

I.F. - 2"  
F.F. - 7"  
IFP: 21-27  
FFP: 20-30  
SIP: 1052-1033  
HP: 1830-1713  
Rec:  
86' GIP  
41' HOCM (35% o)  
BHT: 111

Vis: 57 Wt: 9.0

**DST #6**  
**3904-3924**  
**30-60-30-90**

I.F. - 1/2", died to surf  
F.F. - dead  
IFP: 16-17  
FFP: 17-19  
SIP: 87-89  
HP: 1964-1958  
Rec:  
2' mud w/ oil spots  
BHT: 112

Vis: 57 Wt: 9.0

**DST #7**  
**3919-3941**  
**30-60-60-90**

I.F. - 2.25"  
F.F. - 1.25"  
IFP: 16-22  
FFP: 27-29  
SIP: 1064-903  
HP: 1983-1908  
Rec:  
10' FO  
31' HMCO (70% o)  
BHT: 113

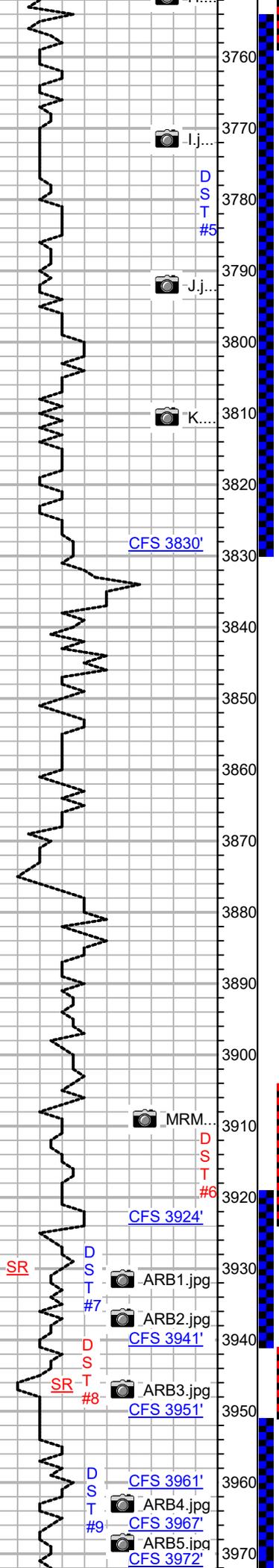
Vis: 60 Wt: 9.0

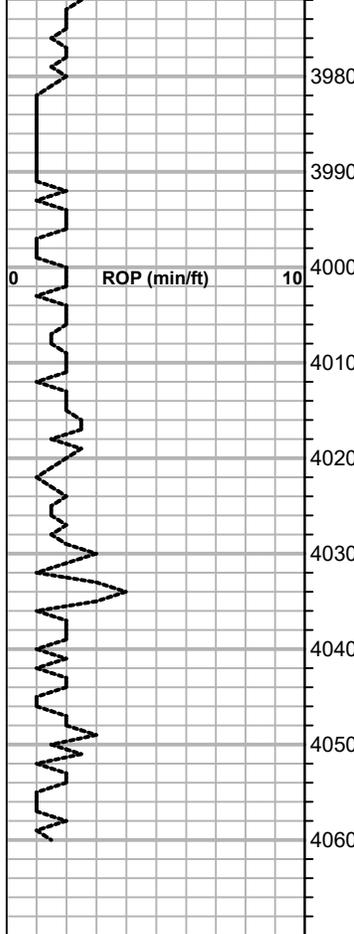
**DST #8**  
**3941-3951**  
**30-60-30-60**

I.F. - 3/4"  
F.F. - Surf  
IFP: 18-21  
FFP: 24-26  
SIP: 1188-1183  
HP: 1996-1969  
Rec:  
5' FO  
5' HMCO (70% o)  
BHT: 111

Vis: 56 Wt: 9.0

**DST #9**  
**3951-3973**





● Dolo: tan, md-crs rhom xln. Scat gd vug por w/ gd sat stn and gd SFO. Fr amt tite rx w/ pr show, some sltly hvy blk oil. Gd strong od, free oil on cup.

● Dolo: wht, trng crs rhom xln. Scat v gd vug por, friable, w/ fr-gd sat and SFO. Some Oil trng hvy. Fr-gd od. Samples not representative of drilling break. Scat shp ool cht.

● Dolo: wht-tan, md rhom xln. Scat vug por, many tite rx. Scat fr sat w/ fr SFO, losing shows. Fr od. Scat shp wht cht.

● Dolo: wht-tan, md rhom xln. Much ala, tite w/ pr por, scat shp wht cht. Few rx w/ hvy SFO, fnt od. Mostly barren.

● Dolo: wht-tan, md rhom xln, few lrg rhombs. Mostly tite w/ pr por, scat fr-gd vugs. Totally barren, no od.

● Dolo: wht, md-crs rhom xln. Scat fr vug por, many tite rx. Totally barren, no od.

RTD:04060 (-1750)

**3951-3972**  
**30-60-60-90**  
 I.F. - BOB 18 min surf SIB  
 F.F. - BOB 18.5 min / 1.25"  
 SIB  
 IFP: 24-68  
 FFP: 74-141  
 SIP: 1178-1162  
 HP: 2009-1943  
 Rec:  
 53' GIP  
 219' GO (90% o)  
 106' GMCO (80% o, 10% g)  
 BHT: 120 G: 37