

Form approved.
Budget Bureau No. 42-R355.5.

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS				
FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
No Cores and No Drill Stem Tests.				Pictured Cliffs	3096'		
				Mesaverte	4720'		
				Gallup	6340'		
				Greenhorn	7224'		
				Graneros	7286'		
				Dakota "A"	7302'		
				Dakota "B"	7424'		
				Dakota Silt	7472'		
				Dakota "C"	7502'		
				Borro Canyon	7583'		
				Morrison	7668'		
				(all measurements from RCB)			
32. (Cont'd from other side of page)							
7370-7362',	7314-7318',	7314-7307'	250 gals 15% MCA				
" "	" "	" "	62000 gals trtd wtr w/				
			80000# sd.				

2/26/79	7648	PB - Prep to RIH w/tbg prod string. DO CIBP @ 7475'. Circ'd & CO to 7625'. POH w/work string. Well kicking. Closed well in & called f/wtr truck @ 4 a.m.
2/27/79	7648	PB - Prep to cont flwg to pit f/clean up. Pmpd wtr into well to kill. RIH w/ 2-3/8" EUE 4.7# J-55 8rd 257 jts (7390') landed @ 7400'KB, 2-3/8" EUE SN 1 jt above btm. Removed BOP, instl'd xmas tree. RU pmp. Pmpd out expendable plug. Well KO flwd 4 p.m. 2/26/79. At 6 a.m. 2/27/79 well flwg to pit, est 20 BF/hr. Est 10% oil, CP 700#.
2/28/79	7648	PB - <u>COMPLETED OIL WELL</u> , 2/27/79, Dakota fm. On 2 hr tst 2/27/79, flwd 26 B0 to tank, 720# CP, flwg in heads, avg gas rate 800 MCFPD, f/Dakota "A" perfs 7370-7362', 7347-7318', 7314-7307'; Dakota "B" perfs 7434-7425'; Dakota "C" perfs 7536-7504'. Est rates: 294 BOPD, 144 BWP (frac wtr), 800 MCFGPD, CP 720#, TP 75#, adjustable ck, GOR 2721:1, oil gvty 43.5° @ 60°F. LPP 7504'.

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2/14/79 7648 PB - Fracing Dakota "C" zone, FBD 2400#. Swbd Dakota "C" until 9 a.m. 2/13/79. FFL 7000', swbg f/7480', sml gas show - TSTM. Total fld rec'd 62 bbls. Final few pulls rec'd 1/2 bbl[±] per pull. Est 30% oil, 70% wtr. Rel pkr & POH w/tbg & pkr. Drug in frac equip w/dozer f/remainder of day.

2/15/79 7648 PB - Cont to swb. Fac'd Dakota "C" zone 7504-7536' (64 holes). All frac fld contained 1% KCl, 2# fric reducer/1000 gal, 15# fld loss add/1000 gals, 40/60 mesh sd. Frac'd as foll: 8,000 gals pad; 7,000 gals, 1/2# sd/gal, 3500#; 8,000 gals, 1# sd/gal, 8,000#; 14,000 gals, 1-1/2# sd/gal, 21,000#; 3,000 gals, 2# sd/gal, 6,000#; 7,980 gals flush. Total frac 32,000 gals wtr & 38,500# sd. BDP 2400#, avg trtg press 2200#, max trtg press 2500#, AIR 40 BPM, HHP 2157#, ISIP 1700#, 5 min SI 1500#, 10 min SI 1300#, 15 min SI 1300#. JC 8:15 a.m. 2/15/79. Closed well in 4 hrs. Bled press off well. Ran 2-3/8" tbg work string @ 7483'. Strtd swbg. Swbd 160 BFF. At 6 a.m., CP 30#, FL @ 1500' f/surf. Swbg f/3500' dn, GCF w/vy sml show of oil.

2/16/79 7648 PB - Cont to swb. 24 hrs, swbd 260 BFF (total rec'd to date 420 BFF). 6 a.m. 2/16, FL @ 2600' f/surf. Swbg f/SN 7480', CP 525#, sml show of oil & GCF.

2/17/79 7648 PB - Swbg Dakota "C" zone f/cleanup. Swbd 240 bbl GCF w/show of oil (2% or less), swbg f/SN @ 7400', FL 1800' to 2000' f/surf. Will flw 5 min between swb runs. CP 6 a.m. 2/17 - 650#. Total rec to date 660 BF of 1200 total load. (Roads terrible - 4 WD necessary).

2/18/79 7648 PB - Cont to swb Dakota "C" zone. 12 noon, FL 2800-3600', swbg f/7400', CP 660#. At 6 p.m., FL 3600', swbg f/7400', CP 710#. At 6 a.m. 2/18, FL 3600-4000', swbg f/7400', CP 500#. Well flws (when CP 700#) f/ 1-2 hrs. Dies when CP reaches 500#. Rec 250 BF in 24 hrs. Est 15% oil. Est lack 250 bbls to recover.

2/19/79 7648 PB - Cont to swb Dakota "C" zone. 12 noon, FL 4000'±, swbg f/7400', CP 600#. At 6 p.m. FL 4000'±, swbg f/7400', CP 710#. At 6 a.m. 2/19, FL 4000'±, swbg f/7400', CP 810#. After 3 or 4 runs well will flw 1-1/2 to 2 hrs, then die. Rec'd 100 BF in 24 hrs, est 50% oil. Rig crews stuck on road f/Lindrith to rig.

2/20/79 7648 PB - Cont to swb & flw Dakota "C" zone. Flwd f/1 period of 8 continuous hrs. Est 50% oil @ 6 a.m., swbg 800# CP, est 30 BO.

2/21/79 7648 PB - Presently rigging up lubricator to set CIBP. Bled csg press dn, remove swbg equip, lower tbg to ck f/fill, OK. POH w/tbg, set CIPB @ 7475'. Tstd CIBP to 4000#, held OK. RIH w/work stringer to 7452'. Sptd 250 gals 15% MCA. POH w/tbg. Rig Go WL. Perf'd Dakota "B" 7434-7425', w/2 holes/ft. Frac'd Dakota "B" as programmed w/1% KCl wtr, 2# frac reducer/1000 gals, 15# fld loss add/1000 gals, 40/60 mesh sd. Frac'd as foll: 8,000 gals pad; 32,000 gals trtd wtr; 38,500# 40/60 sd; 7200 gals flush. Brk dn press 1400#, avg trtg press 2800#, max trtg press 3000#, AIR 42 BPM, HHP 2882#. ISIP 1500#, 5 min SIP 1400#, 10 min SIP 1300#, 15 min SIP 1200#.

2/22/79 7648 PB - WO impression blk & fishing tools. Ran & set CIPB @ 7395', tstd to 4000#, held OK. RIH w/ 3-1/8" carrier gun. Gun stuck @ 7308'. Pull line out of rope socket. WO Go Int'l overshot & jars. RIH w/fishing tools, stopped @ 7220'. POH. Imprint on overshot looks like tong die.

2/23/79 7648 PB - Prep to perf Dakota "A". RU & ran impression blk on 2 jts tbg & GO WL. No sign on impression blk. RIH w/overshot jars & bmr sub. Tagged sd @ 7220'. Circ'd & wsh to 7358'. PU perf gun w/overshot. POH. LD fishing tools. RIH opn ended. Circ'd & CO @ 7395' (CIBP). POH w/tbg. RU Go Int'l.

2/24/79 7648 PB - Bleeding well dn after SWF Dakota "A" zone. WIH w/perf gun sd @ 7325'. WIH w/tbg & notched clr, rev circ sd to CIBP @ 7395'. POH. WIH w/perf gun & perf'd Dakota "A" w/1 shot/ft as foll: 7370-7362', 7347-7318', 7314-7307'. Brk fm dn w/1900#. Spearhead w/250 gals 15% MCA. Soaked 10 min & frac'd w/trtd wtr containing 1% KCl, 2#/1000 gals fric reducer, 15#/1000 gals FLA & 20/40 sd, used 18,000 gals pad, 62,000 gals trtd wtr, 80,000# 20/40 sd & 7100 gals flush. FBDP 1900#, avg TP 1900#, Max TP 2600#, AIR 47 BPM, HHP 2095#. ISIP 700#, 5 min SIP 650#, 10 min 600#, 15 min 575#. Dropped 5 balls after 49,560 gals in, had 0# press incr, dropped 10 balls after 62,790 gals in, had 100# incr. SI 4 hrs. Now bleed off press to GIH w/bit.

2/25/79 7648 PB - Milling on BP @ 7475'. WIH w/ 4-3/4" mill & jk bskt. Milled CIBP @ 7395'. Rig repairs 5:00 p.m. til 12:00 MN. At 6 a.m. milling on CIBP @ 7475'.

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11/22/78	329	WOC. Spudded 6:30 pm 11/21/78. Ran 7 jts 8-5/8" 24# K-55 ST&C Rge 3 8rd new csg (313') set @ 328' KB. (KB to GL 14'). Cmt'd w/300 sx Cl "B" w/3% CaCl & 1/4# Flocele/sx. PD 4:45 am 11/22/78. Circ'd out 12 bbls cmt. Ran GS & 3 Cent. 1/2" @ 320'. 80 RPM, all wt. Mud: 8.7#, vis 50. B#1, 12-1/4", Hughes, OSCIG, made 329' in 6 hrs. Elev 6922' GL (ungraded).
11/23/78	796	Drig. Tstd BOP & manifold to 1000# f/15 min, held OK. Top cmt @ 295'. 70 RPM, 15M#. Mud: 9.0#, vis 42, WL 6, FC 1/32, Sd-tr, Ph 9, Oil 6%, solids 3% (B#2).
11/24/78	1801	Drig. 2" @ 949' & 1195', 1-1/4" @ 1418'. 64 RPM, 20M#. Mud: 8.7#, vis 55, WL 6, FC 1/32, Sd 1/2%, Ph 9, Oil 5%, solids 2%. B#2, 7-7/8", HTC, OSC-IG, made 1089' in 19-1/4 hrs. (B#3).
11/25/78	2881	Drig. 1-1/4" @ 2336'. 65 RPM, 35M#. Mud: 8.9#, vis 45, WL 8, FC 1/32, Sd 1/2%, Ph 8.5, oil 5%, solids 2%. B#3, 7-7/8", STC, DG-H, made 918' in 14-3/4 hrs. (B#4).
11/26/78	3559	Drig. 56 RPM, 40M#. Mud: 8.9#, vis 45, WL 7.2, FC 2/32, Sd .5%, Ph 8, oil 6%, solids 4%. B#4, 7-7/8", STC, DGT-H, made 829' in 20-1/2 hrs. (B#5).
11/27/78	4235	Drig. 56 RPM, 40M#. Mud: 8.9#, vis 4.5, WL 5, FC 2/32, Sd 1/2%, Ph 8, oil 7%, solids 4%. (B#5).
11/28/78	4686	Trip f/bit. 56 RPM, 40M#. Mud: 9.0#, vis 46, WL 4, FC 2/32, Sd 5/10%, Ph 8.0, Pv 18, Yld 24, Gels 11/26, oil 8%, solids 5%. B#5, 7-7/8", Sec., S84F, made 1521' in 59-3/4 hrs.
11/29/78	5116	Drig. 1/2" @ 4686'. 56 RPM, 40M#. Mud: 9.0#, vis 46, WL 4.2, FC 2/32, Sd 5/10%, Ph 8.0, oil 9%, solids 4%. (B#6).
11/30/78	5625	Drig. 56 RPM, 40M#. Mud: 8.9#, vis 45, WL 4.4, FC 2/32, Sd 5/10%, Ph 8.5, oil 9%, solids 5%. (B#6).
12/1/78	6156	Drig. 56 RPM, 40M#. Mud: 8.8#, vis 45, WL 3.8, FC 2/32, Sd .5%, Ph 8.5, Pv 30, Yld 16, Gels 11/19, oil 8%, solids 4%. (B#6).
12/2/78	6615	Drig. 56 RPM, 40M#. Mud: 8.8#, vis 47, WL 4.2, FC 2/32, Sd .5%, Ph 9.0, Pv 36, Yld 28, Gels 14/26, oil 7%, solids 5%. (B#6).
12/3/78	6975	Drig. 1" @ 6623'. 56 RPM, 40M#. Mud: 8.9#, vis 51, WL 4.0, FC 2/32, Ph 9.0, Pv 34, Yld 33, Gels 16/29, oil 7%, solids 5%. B#6, 7-7/8", Sm., F-2, made 1937' in 90-1/2 hrs. (B#7).
12/4/78	7285	Drig. 1/4" @ 7237'. 56 RPM, 40M#. Mud: 8.9#, vis 52, WL 4.5, FC 2/32, Ph 9, Pv 35, Yld 22, Gels 11/22, oil 8%, solids 5%. B#7, 7-7/8", Sm., F-2, made 614' in 26-1/2 hrs. (B#8).
12/5/78	7505	Drig. 48 RPM, 40M#. Mud: 8.9#, vis 55, WL 5.4, FC 2/32, Ph 8.5, oil 9%, solids 5%, Pv 36, Yld 21, Gels 17/28. (B#8).
12/6/78	7688	POH to log. Burro Canyon & Morrison came in 75' low to prognosis. Burro Canyon @ 7597'. Sch on loc. 48 RPM, 40M#. Mud: 9.0#, vis 110, WL 4.4, FC 2/32, Sd 1/2%, Ph 8.5, Pv 38, Yld 26, Gels 18/37, oil 9%, solids 5%. B#8, 7-7/8", HTC, J-55R, made 451' in 48 hrs.
12/7/78	7688	Prep to GIH to circ & LD DP f/rng csg. Ran DIL, FDC-CNL & GR w/caliper. Mud: 9.1#, vis 110, WL 4.6, FC 2/32, Ph 8.5, oil 8%. (Roads were closed until 6:30 am 12/7. Could not get cmtrs in prior to that time. Now travel at own risk).
12/8/78	7688	TD - RU to circ csg. Ran 193 jts 5-1/2" N-80 & K-55 Rge 3 8rd new csg. Tally as foll: 36 jts N-80 17# (1446.31'); 157 jts 15.5# K-55 ST&C (6260.84') plus 6' f/DV tool & FC. Total csg 7713.15', set @ 7688'. DV tool @ 4446', FC @ 7648', Cent @ 7675', also on top of jts #2, 4, 6, 8, 10, also on top of jts #30, 32, 34, also on top of jts #110, 112 & 115. DV tool @ top of jt #111. Trying to thaw out pmp trucks. Prep to cmt csg. Mud: 9.0#, vis 80.
12/9/78	7688	TD - Rig idle. To move to Tonkin #3. Cmt'd 1st stage w/250 sx 50/50 Poz + 4% gel, 6-1/2# gilsonite/sx, 3/4" D-65, .2% D-13, foll w/150 sx Cl "B" neat. PD 9:30 a.m. 12/8/78. Cmt'd 2nd stage w/130 sx 50/50 Poz + 4% gel, 6-1/2# gilsonite/sx, 3/4" D-65, foll by 120 sx Cl "B" neat. PD @ 1:30 pm 12/8/78. Worked csg on 1st stage. Hung csg & cut off. Removed BOP & RR 4:00 p.m. 12/8/78.
12/10/78	7688	TD - MORT.
12/11/78	7688	TD - Prep to clean loc. Fin MORT.
12/12/78	7688	TD - WO completion.
2/11/79	7688	TD - POH to run cased hole logs. MI & RU Aztec Well Serv (#157). head equip & BOP. Unload 2-3/8" EUE tbg & meas same. WIH w/bit & csg scraper & drld DV tool @ 4446'. Circ & CO to 7648' PBTD. Now POH w/tbg to run cased hole logs.
2/12/79	7648	PB - Prep to swb. Fin POH w/bit & scraper. RU Go Int'l WL Serv. Ran CBL w/var dens, GR clr log 7630-6100' & 3800-2900'. Vy gd bond across Dakota 95% bond. Press tst csg to 4000#, held OK. RIH opn ended. Displ'd hole w/1% KCl wtr. Sptd 500 gals 15% MCA. POH w/tbg. Perf Dakota "C" zone 7536-7504' w/2 JSPF (64 holes). Closed BOP & pmpd acid in @ 1000# & 4 BPM. SI 1 hr. Bled off press. Set pkr @ 7483'. RU to swb.
2/13/79	7648	PB - Swbg Dakota "C" zone. Fin RU to swb. Chg'd out swb line @ 6 a.m. 2/13/79. FL 7000', plg swb f/7480'. Total rec 60 BF, est 30% oil. Swbd dry, avg 1 to 1-1/2 pulls/hr, sml constant blw gas - TSTM. Better gas blw on swb pull. (Roads frozen).

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