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ConocoPhillips

6825 South 5300 West
P.O. Box 851
Price, UT 84501
phone 435.613.9777
fax 435.613.9782

May 12, 2003

Ms. Diana Mason
State of Utah
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
SLC, Utah 84114-5801

RE: Application for Permit to Drill-
Utah 32-617 – Multi Lateral Drill Hole Sec. 32
T15S, R09E, SLB & M, Carbon County, Utah

Dear Ms. Mason:

Enclosed is the original of the *Application for Permit to Drill* (APD). Included with the APD is the following information:

Exhibit "A"- Survey Plat of the Proposed Well Site;

Exhibit "B" - Proposed Location Map with Pipeline, Power, and Road Access;

Exhibit "C" - Drilling Site Layout;

Exhibit "D" - Drilling Information

Exhibit "E" - Multipoint Surface Use Plan

Exhibit "F" - Typical Road Cross-section;

Exhibit "G" - BOP Diagram;

Exhibit "H" - Typical Wellhead Manifold;

Exhibit "I" - Evidence of Bond;

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The proposed well is located inside the Drunkards Wash Federal Unit. Due to topographical constraints in this area, the surface location is to be located in Section 32, SW/4, 957' FWL and 788' FSL. This well will be a horizontal multi lateral hole. The bottom hole location will be located within the "spacing window" and more than 460' from the boundary of the Unit Area and from the boundary of any uncommitted tract within the Unit Area and will not require the administrative approval in accordance with Utah Administrative Code Rule R649-3-3.

The target location will be in the NW/4 of Section 32, T15S, R09E. ConocoPhillips Company is the "owner" of all leases within 460' from all points along the intended well bore in the NW/4 and S/2 of Sec. 32.

Also enclosed is a copy of the archeological survey done for this proposed well site location.

Please accept this letter as ConocoPhillips Company's written request for confidential treatment of all information contained in and pertaining to this permit application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact me if you have any questions.

Sincerely,

Jean Semborski

Jean Semborski
Permitting Supervisor

cc: Mr. Eric Jones, BLM, Moab, Utah
Mr. Gene Herrington, Texaco
Mr. John Lennon, Dominion Resources
Mr. Don Stephens, BLM, Price, Utah
Ms. Jane Strickland, ConocoPhillips Company
Mr. Mark Jones, DOGM, Price, Utah
Ms. Deanna Walker, COPC, Denver CO
Mr. Edward Bonner, SITLA
COPC Well File

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STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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FORM 3

AMENDED REPORT ☐
(HIGHLIGHT CHANGES)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO.: ML-43209
6. SURFACE: State

1A. Type of Work: DRILL ☒ REENTER ☐ DEEPEN ☐

7. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

B. Type of Well: OIL ☐ GAS ☒ OTHER: SINGLE ZONE ☐ MULTIPLE ZONE ☐

8. UNIT or CA AGREEMENT NAME: Drunkards Wash UTU-67921X

2. NAME OF OPERATOR: ConocoPhillips Company

9. WELL NAME and NUMBER: Utah 32-617d

3. ADDRESS OF OPERATOR: 6825 South 5300 West, P.O. Box 851, Price, Utah 84501 (CITY STATE ZIP)
PHONE NUMBER: (435) 613-9777

10. FIELD AND POOL, OR WILDCAT: Drunkards Wash

4. LOCATION OF WELL (FOOTAGES) 4368935 Y 39.47187
504895 X -110.94309

BHL
1330 FNL
1330 FWL

AT SURFACE: Surface: 788' FSL, 957' FWL, Sec. 32

AT PROPOSED PRODUCING ZONE: BHL: NW/4. Sec. 32. T15S, R09E 4369889 Y 39.48046 504985 X -110.94204

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Surface: SW/4 SW/4 Section 32, T15S, R09E, SLB&M
Target: NW/4 Section 32, T15S. R09E, SLB&M

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 11.4 miles southwest of Price, UT

12. COUNTY: Carbon
13. STATE: UTAH

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET): 788'
16. NUMBER OF ACRES IN LEASE: 320 acres
17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 160 acres

18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET): 350'
19. PROPOSED DEPTH: 5070' MD, 3122' TVD
20. BOND DESCRIPTION: Rotary

21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 6231'
22. APPROXIMATE DATE WORK WILL START: June 2003
23. ESTIMATED DURATION:

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
20"	16" Conductor	40'	
14 3/4"	H-40 11 3/4" 42#/ft	500'	340 sks G+2&CaCl+1/4#/sk flocel
9 7/8"	J-55 7 5/8" 26.4#/ft	5070'MD	430 sks 50/50poz8%gel+2%CaCl+1%extender
			100 sks G+2&CaCl+1/4#/sk flocel
			97 sks "G" thixtropic

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTCHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION RULES:

☒ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER

☒ COMPLETE DRILLING PLAN

☒ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER

☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

Name & Signature: Jean Semborski *Jean Semborski* Title: Permitting Supervisor Date: 5/2/03

(This space for state use only)

API Number Assigned: 43-007-30922

Approval by the Utah Division of Oil, Gas and Mining
Date: 07-02-03
By: [illegible]
(See Instructions on Reverse Side)

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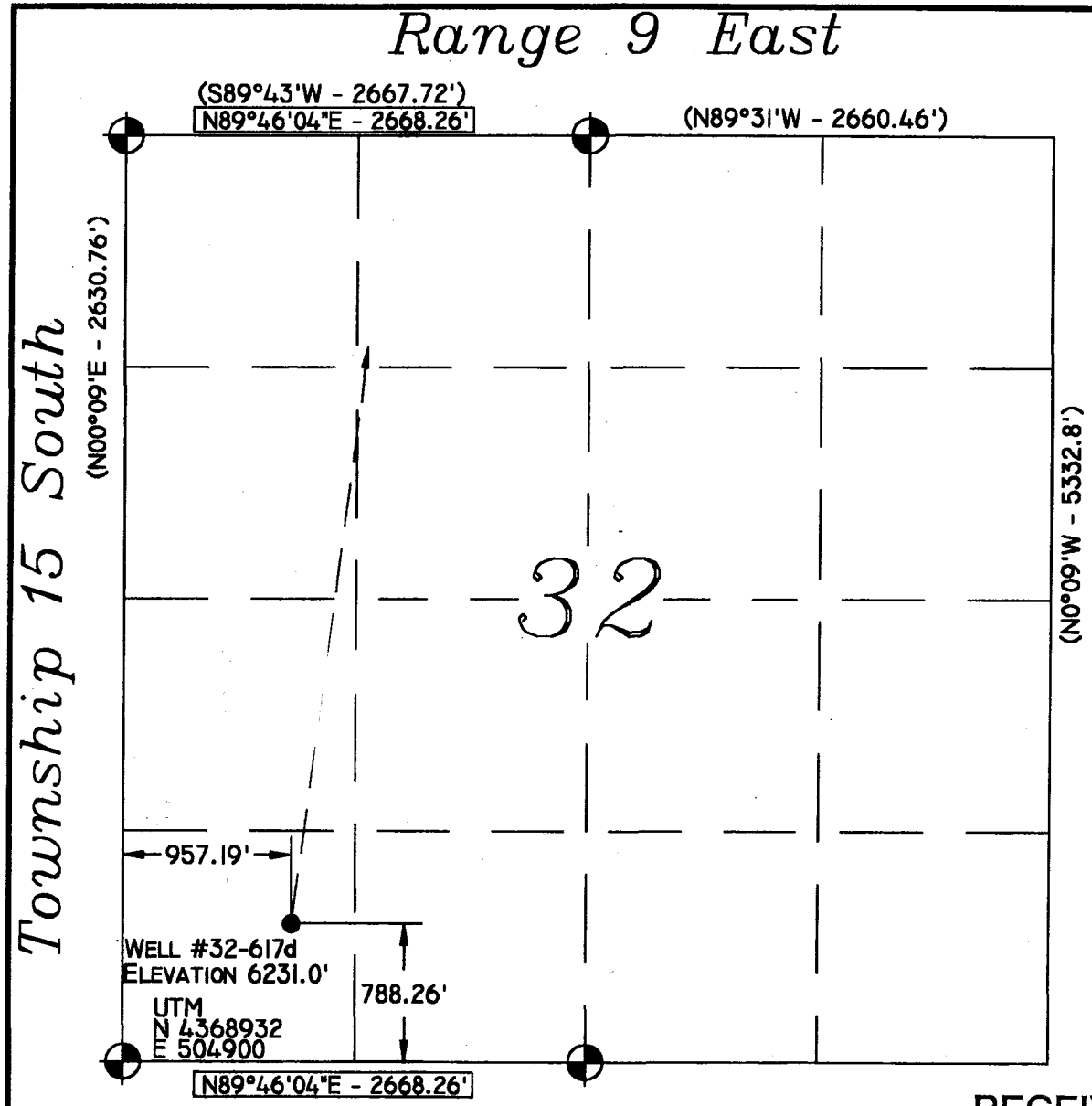
(11/2001)



Location:
THE WELL LOCATION WAS DETERMINED USING A TRIMBLE 4700 GPS SURVEY GRADE UNIT.

Basis of Bearing:
THE BASIS OF BEARING IS GPS MEASURED.

GLO Bearing:
THE BEARINGS INDICATED ARE PER THE RECORDED PLAT OBTAINED FROM THE U.S. LAND OFFICE.

Basis of Elevation:
BASIS OF ELEVATION OF 6582.7' BEING AT THE SOUTHWEST SECTION CORNER OF SECTION 32, TOWNSHIP 15 SOUTH, RANGE 9 EAST, SALT LAKE BASE AND MERIDIAN, AS SHOWN ON THE HIAWATHA QUADRANGLE 7.5 MINUTE SERIES MAP.

Description of Location:
SURFACE LOCATION
PROPOSED DRILL HOLE LOCATED IN THE SW1/4 SW1/4 OF SECTION 32, T15S, R9E, S.L.B.&M., BEING 788.26' NORTH AND 957.19' EAST FROM THE SOUTHWEST SECTION CORNER OF SECTION 32, T15S, R9E, SALT LAKE BASE & MERIDIAN.

Surveyor's Certificate:
I, Albert J. Spensko, a Registered Professional Land Surveyor, holding Certificate 146652 State of Utah, do hereby certify that the information on this drawing is a true and accurate survey based on data of record and was conducted under my personal direction and supervision as shown hereon.

REGISTERED LAND SURVEYOR
3-28-03
No. 146652
Albert J. Spensko
STATE OF UTAH

TALON RESOURCES, INC.
375 S. Carbon Ave., Ste 101, (A-10)
Price - Huntington, Utah
Phone (435)637-8781 Fax (435)636-8603
E-Mail talonecastlenet.com

ConocoPhillips Company

Section 32, T15S, R9E, S.L.B.&M.
Carbon County, Utah
WELL #32-617d

Drawn By: J. STANSFIELD	Checked By: L.W.J./A.J.S.
Drawing No. A-1	Date: 03/21/03
	Scale: 1" = 1000'
Sheet 1 of 4	Job No. 1016

LEGEND
- ● DRILL HOLE LOCATION
- ⊕ METAL CAP (FOUND)
- ○ BRASS CAP (SEARCHED FOR, BUT NOT FOUND)
- △ WITNESS CORNER
- ( ) GLO

GPS MEASURED

NOTES:
1. UTM AND LATITUDE / LONGITUDE COORDINATES ARE DERIVED USING A GPS PATHFINDER AND ARE SHOWN IN NAD 27 DATUM.

SURFACE LOCATION
LAT/LONG
39°28'19"N
110°56'35"W

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GRAPHIC SCALE
0 500' 1000'
(IN FEET)
1 inch = 1000 ft.

EXHIBIT "D"
DRILLING PROGRAM

Attached to Form 3
ConocoPhillips Company
Utah 32-617D
Surface : SW/4, SW/4, Sec.32, T15S, R09E, SLB & M
788' FSL, 957' FWL
Target: NW/4, Sec. 32, T15S, R09E, SLB&M
Carbon County, Utah

1. The Surface Geologic Formation

   Mancos Shale

2. Estimated Tops of Important Geologic Markers

   Blue Gate/Ferron 3900'

3. Projected Gas & H2O zones (Ferron Formation)

   Coals and sandstones 3940' - 4115'

   No groundwater is expected to be encountered.

   Casing & cementing will be done to protect potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits. All indications of usable water will be reported.

   Surface casing will be tested to 1400 psi.

4. The Proposed Casing and Cementing Programs

HOLE SIZE	SETTING DEPTH (INTERVAL)	SIZE (OD)	WEIGHT,GRADE & JOINT	NEW, USED
20"	40'	16"	Conductor	New
14 3/4"	500'	11 3/4"	42#H-40	New
9 7/8"	5070'MD	7 5/8"	26.4#J-55	New

Cement Program -

Surface Casing:	340 sks G+2%CaCl+1/4#per sack flocel;15.8#/gal,density, 1.15 cu.ft/sk yield. Every attempt will be made to bring cement back to surface.
Production Casing:	430 sks 50/50 poz 8%gel +2%CaCl+10%extender;12.5#/gal, density, 1.92 cu.ft/sk yield.
	100 sks G+2%CaCl+1/4#per sack flocel;15.8#/gal,density, 1.15 cu.ft/sk yield. Every attempt will be made to bring cement back to surface.
	97 sks "G" thixtropic

The following shall be entered in the driller's log:

1) Blowout preventer pressure tests, including test pressures and results;

2) Blowout preventer tests for proper functioning;

3) Blowout prevention drills conducted;

4) Casing run, including size, grade, weight, and depth set;

5) How the pipe was cemented, including amount of cement, type, whether cement circulated, location of the cementing tools, etc.;

6) Waiting on cement time for each casing string;

7) Casing pressure tests after cementing, including test pressures and results.

5. The Operator's Minimum Specifications for Pressure Control

Exhibit "G" is a schematic diagram of the blowout preventer equipment. A double gate 3000 psi BOPE will be used with a rotating head. This equipment will be tested to 2000 psi. All tests will be recorded in a Driller's Report Book. Physical operation of BOP's will be checked on each trip.

6. The Type and Characteristics of the Proposed Circulating Muds

0-300	11 3/4" hole	Drill with air, will mud-up if necessary.
300-TD	9 7/8" hole	Drill with air. 400 psi @ 1500-1800 Scf.

7. The Testing, Logging and Coring Programs are as followed

300-TD Gamma Ray, Density, Neutron Porosity, Induction, Caliper

Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 1912 psi max. No hydrogen sulfide or other hazardous gases or fluids have been found, reported or are known to exist at these depths in the area.

8. Anticipated Starting Date and Duration of the Operations.

The well will be drilled around June 2003.

Verbal and/or written notifications listed below shall be submitted in accordance with instructions from the Division of Oil, Gas & Mining:

(a) prior to beginning construction;

(b) prior to spudding;

(c) prior to running any casing or BOP tests;

(d) prior to plugging the well, for verbal plugging instructions.

Spills, blowouts, fires, leaks, accidents or other unusual occurrences shall be reported to the Division of Oil, Gas & Mining immediately.

EXHIBIT "E"
MULTIPOINT SURFACE USE PLAN

Attached to Form 3
ConocoPhillips Company
Utah 32-617D
Surface : SW/4, SW/4, Sec.32, T15S, R09E, SLB & M
788' FSL, 957' FWL
Target: NW/4 Sec. 32, T15S, R09E, SLB&M
Carbon County, Utah

1. **Existing Roads**
   a. We do not plan to change, alter or improve upon any existing state or county roads.
   b. Existing roads will be maintained in the same or better condition. See Exhibit "B".

2. **Planned Access**
   Approximately 150' of new access is required (See Exhibit "B")

   a. Maximum Width: 24' travel surface with 27' base

   b. Maximum grade: 5%

   c. Turnouts: None

   d. Drainage design: 2 culverts may be required. Water will be diverted around well pad as necessary.

   e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

   f. Pipe and Power lines will follow the proposed access road.

3. **Location of Existing Wells**

   a. See Exhibit "B". There are 0 proposed and 6 existing wells within a one-mile radius of the proposed location.

4. **Location of Existing and/or Proposed Facilities**
   a. If the well is a producer, installation of production facilities will be as shown on Exhibit "H". Buried powerlines run along access on the east and north, gathering lines on the south or west.

   b. Rehabilitation of all pad areas not used for production facilities will be made in accordance with landowner stipulations.

5. **Location and Type of Water Supply**

   a. Water to be used for drilling will be purchased from the Price River Water Improvement District (a local source of municipal water) (tel. 435-637-6350).

   b. Water will be transported by truck over approved access roads.

   c. No water well is to be drilled for this location.

6. **Source of Construction Materials**

   a. Any necessary construction materials needed will be obtained locally and hauled to the location on existing roads.

   b. No construction or surfacing materials will be taken from Federal/Indian land.

7. **Methods for handling waste disposal**

   a. As the well will be air drilled, a small reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit. The pit will not be lined unless conditions encountered during construction warrant it or if deemed necessary by the DOGM representative during the pre-site inspection. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.

   b. Following drilling, the liquid waste will be evaporated from the pit and the pit back-filled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or location.

   c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.

   d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. **Ancillary Facilities**

   a. We anticipate no need for ancillary facilities with the exception of one trailer to be located on the drill site.

9. **Wellsite Layout**

   a. Available topsoil will be removed from the location and stockpiled. Location of mud tanks, reserve and berm pits, and soil stockpiles will be located as shown on the attachments.

   b. A blooie pit will be located 100' from the drill hole. A line will be placed on the surface from the center hole to the pit. The pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.

   c. Access to the well pad will be as shown on Exhibit "B".

   d. Natural runoff will be diverted around the well pad.

10. **Plans for Restoration of Surface**

   a. All surface areas not required for producing operations will be graded to as near original condition as possible and contoured to maintain possible erosion to a minimum.

   b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.

   c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.

11. **Surface Ownership**:

   a. The wellsite and access road will be constructed on lands owned by the Schools and Institutional Trust Lands Administration. The operator shall contact the landowner representative and the Division of Oil, Gas and mining 48 hours prior to beginning construction activities.

12. **Other Information**:

a. The primary surface use is farming and grazing. The nearest dwelling is approximately 9500 feet northeast.

b. Nearest live water is Miller Creek located at 6500' north.

c. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed and piled downhill from the topsoil stockpile location.

d. The backslope and foreslope will be constructed no steeper than 4:1.

e. All equipment and vehicles will be confined to the access road and well pad.

f. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be on the wellsite during construction and drilling operations

There will be no deviation from the proposed drilling and/or workover program without prior approval from the Division of Oil, Gas & Mining.

13. **Company Representative**

Jean Semborski
Permitting Supervisor
ConocoPhillips
6825 S. 5300 W. P.O. Box 851
Price, Utah 84501
(435) 613-9777
(435) 820-9807

Mail Approved A.P.D. To:

Company Representative

Excavation Contractor

Nelco Contractors Inc.
Larry Jensen
(435) 637-3495
(435) 636-5268

14. **Certification**

I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by ConocoPhillips and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

5/12/03
Date

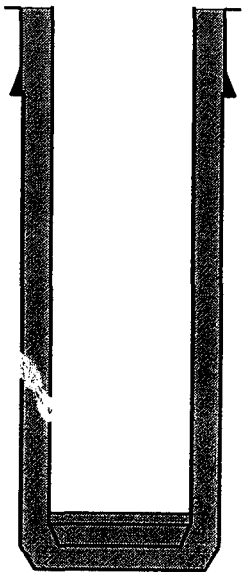
Jean Semborski
Permitting Supervisor
ConocoPhillips

HALLIBURTON

ConocoPhillips Inc. - Drunkard's Wash Operations

11-3/4" Surface Casing
Well Information & Calculations

Well # 617 HML



	Depth	Excess	<- Outer -> OD	ID	<- Inner -> OD	ID	cu ft/ft	bbl/ft	cu ft	bbl
RKB / Surface	0									
16" Conductor	20									
Displacement					11.75	11.084	0.6701	0.1193		55.9
Spacer Length	*259*									
Primary Cmt-1		0%	14.75	14.75	11.75	11.084	0.4336	0.0772	8.7	
Primary Cmt-2	480	65%	14.75	14.75	11.75	11.084	0.4336	0.0772	357.7	
Shoe Track	468	0%			11.75	11.084	0.6701	0.1193	21.4	
Casing TD	500									
BHST Grad'nt	*1.5*									
Est BHST =	*88 °F*									

TOTAL TAIL SLURRY (ft^3) 387.8
TOTAL DISPLACEMENT VOLUME (bbl) 55.9

PRIMARY CEMENT SLURRY

Class 'AG300' Cement		331 sx	Slurry Volume	388 cu ft
	0.0% bwoc-db	0.0 lbs		69.1 bbl
	0.0% bwoc-db	0.0 lbs	Slurry Density	**15.8** ppg
CaCl2 (Accelerator)	2.0% bwoc-db	623.2 lbs	Slurry Yield	1.17 cu ft/sk
Flocele	0.125 lb/sk	41.4 lbs	Mix Fluid	5.0 gal/sk
Defoamer (if req'd)	0 gal/bbl	0.0 gal		

No excess's for losses, dead volumes, etc

SPACER REQUIREMENTS

Fresh Water **20** bbl **8.33** ppg

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SLURRY DESIGN PARAMETERS
(Ref test : CO2-0092)

	Lead Cement	Primary Cement
Thickening Time (approx; 80°F BHCT)	NA	02:30 to 3:00
Compressive Strength (est)	80 deg F	80 deg F
8 hr	NA	671
12 hr	NA	1,116 psi
24 hr	NA	2,452 psi
Free Water	NA	NA

PUMPING SCHEDULE

	Volume bbls	Rate bpm	Pump	Job Time min	Cement Thickening Time	
Spacer #1	3	4	HES	1		
Drop Bottom Plug	0	0	HES	8		
Spacer #2 (*Fresh Water*)	20	4	HES	0		
Mix & Pump Lead Slurry	0.0	5	HES	0	NA	(est)
Mix & Pump Tail Slurry	69.1	4	HES	17	02:30 to 3:00	(est)
Drop Top Plug	0	0	HES	8		
Displacement (*Fresh Water*)	55.9	3.5	HES	16		
					min	max
Total Est Job Time / Cementing time		50 min		41 min		
Design Recommended Min/Max TT				0.69 hr		

MATERIAL REQUIREMENTS

		BULK VOLUMES	BULK WEIGHTS
Class 'AG300' Cement	340.0 sx	340.0 ft^3	15.98 tons
CaCl2 (Accelerator)	630.0 lbs	12.475 ft^3	0.32 tons
Flocele	50.0 lbs	3.3 ft^3	0.03 tons
Defoamer (if req'd)	0.0 gal		
		356 ft^3	16.32 tons

11-3/4" Surface Casing **Well # 617 HML**

Job Notes & Contingencies

1) Displacement pumping rate should be gradually stepped down during the last +/- 1/3 to 1/4 of displacement volume. Maximum recommended rate during displacement should be 4-1/2 to 5 bpm.

2) 65% excess cement in OH.

3) Flocele / Poly E-Flake added at 1/8# per sack for potential losses. This may be either increased or eliminated depending upon actual drilling conditions.

4) 32' shoe track (1 joint) has been assumed.

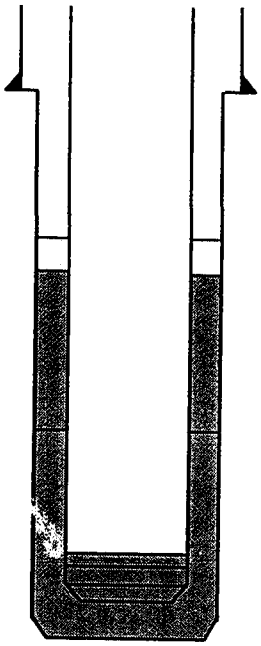
5) 11-3/4" Surface Casing assumed to be 42.0# for purposes of calculations.

6) Hole to be drilled with air or mist.

7) Spacer option for 50% caustic soda solution.

7-5/8" Intermediate Casing
Well Information & Calculations

Well # 617 HML



	Depth	Excess	<- Outer -> OD	ID	<- Inner -> OD	ID	cu ft/ft	bbl/ft	cu ft	bbl
Surface	0									
11-3/4" shoe	500		11.75	11.08	7.625	6.969	0.3530	0.063		
Displacement					7.625	6.969	0.2649	0.047		237.2
Top Spacer	977									
Lead Cmt Top	1,500	30%	9.875	9.875	7.625	6.969	0.2148	0.038	857.1	
Tail Cmt Top	4,570	30%	9.875	9.875	7.625	6.969	0.2148	0.038	139.6	
Float Collar	5,028	0%			7.625	6.969	0.2649	0.047	11.1	
Csg Shoe (MD)	5,070									
Shoe (TVD)	3,122									
BHST Grad'nt	*0.64*									
Est BHST =	*100 °F*									

TOTAL LEAD SLURRY VOLUME (CU FT)	857.1	
TOTAL TAIL SLURRY VOLUME (CU FT)	150.7	
TOTAL DISPLACEMENT VOLUME (BBL)		237.2

--> See notes following on BHST.

LEAD CEMENT SLURRY

Premium 50:50 Poz			426	sx	Slurry Volume	857 cu ft
Class 'AG300' Cmt	50%		20,042	lbs		
JB Flyash / Poz	50%		15,031	lbs		152.7 bbl
Gel	8%	bwob-DB	731	lbs	Slurry Density	**12.5** ppg
CalSeal	10%	bwob-DB	914	lbs	Slurry Yield	2.01 cu ft/sk
KCl	2.00%	bwow-DB	766	lbs	Mix Fluid	10.78 gal/sk
Defoamer (if req'd)	0.002	gal/sk	0.9	gal		

No excess's for losses, dead volumes, etc

TAIL CEMENT SLURRY

Premium Class 'AG300' Cement			97	sx	Slurry Volume	151 cu ft
Class 'AG300' Cmt	100%		9,140	lbs		26.8 bbl
JB Flyash / Poz	0%	bwob-DB	0	lbs	Slurry Density	**14.2** ppg
Gel	0%	bwob-DB	0	lbs	Slurry Yield	1.55 cu ft/sk
CalSeal	5.00%	bwob-DB	457	lbs	Mix Fluid	7.78 gal/sk
KCl	2.00%	bwow-DB	126	lbs		
Calcium Chloride	2.00%	bwob-DB	183	lbs		
Defoamer (if req'd)	0.002	gal/sk	0.2	gal		

No excess's for losses, dead volumes, etc

SLURRY DESIGN PARAMETERS
(reference test: CO2-0119)

	Lead Cement		Tail Cement
Thickening Time (est; 80°F BHCT)	10:00 to 12:00	+/-	9:55

Compressive Strength (est)	80 deg F	80 deg F
8 hr	NA	122 psi
12 hr	"	249 psi
24 hr	"	488 psi
36 hr	"	600 psi
500 psi		25:01 hr:min

SPACER REQUIREMENTS

Fresh Water	**20** bbl	**8.33** ppg

PUMPING SCHEDULE

	Volume bbls	Rate bpm	Pump	Job Time min	Cement Thickening Time
Spacer #1 (*Fresh Water*)	20	4	HES	5	
Drop Bottom Plug			HES	8	
Mix & Pump Lead Slurry	152.7	4	HES	38	10:00 to 12:00
Mix & Pump Tail Slurry	26.8	4	HES	7	9:55 (est)
Drop Top Plug (N/A)			HES	5	
Displacement (Fresh Water)	237.2	5	HES	47	
					min max
Total Est Job Time / Cementing time		110 min		97 min	
Design Recommended Min/Max TT				1.62 hr	

MATERIAL REQUIREMENTS

		BULK VOLUMES	BULK WEIGHTS
Premium 50:50 Poz	430.0 sx	430.0 ft^3	20.21 tons
Premium Class 'AG300' Cement	100.0 sx	0.0 ft^3	0.00 tons
JB Flyash / Poz	15,040.0 lbs	250.7 ft^3	7.52 tons
Gel	740.0 lbs	24.7 ft^3	0.37 tons
CalSeal	1,380.0 lbs	27.3 ft^3	0.69 tons
KCl	900.0 lbs	0.0 ft^3	0.45 tons
Calcium Chloride	190.0 lbs	2.7 ft^3	0.10 tons
Defoamer (if req'd)	10.0 gal	0.0 ft^3	0.01 tons
		735.3 ft^3	29.34 tons

HALLIBURTON

ConocoPhillips Inc. - Drunkard's Wash Operations

7-5/8" Intermediate Casing
Job Notes & Contingencies

Well # 617 HML

1) 30% excess cement in open-hole

2) Flocele / Poly E-Flake added at 1/8# per sack for potential losses. This may be increased to as much as 1/2# per sack if severe losses are anticipated.

3) 42' (1 joint) shoe track has been assumed.

4) Spacer option for 50% caustic soda solution. Note that recommended spacer may change if the hole is 'mudded-up' due to drilling problems.

5) It is recommended that BHST be re-checked & verified for accuracy.

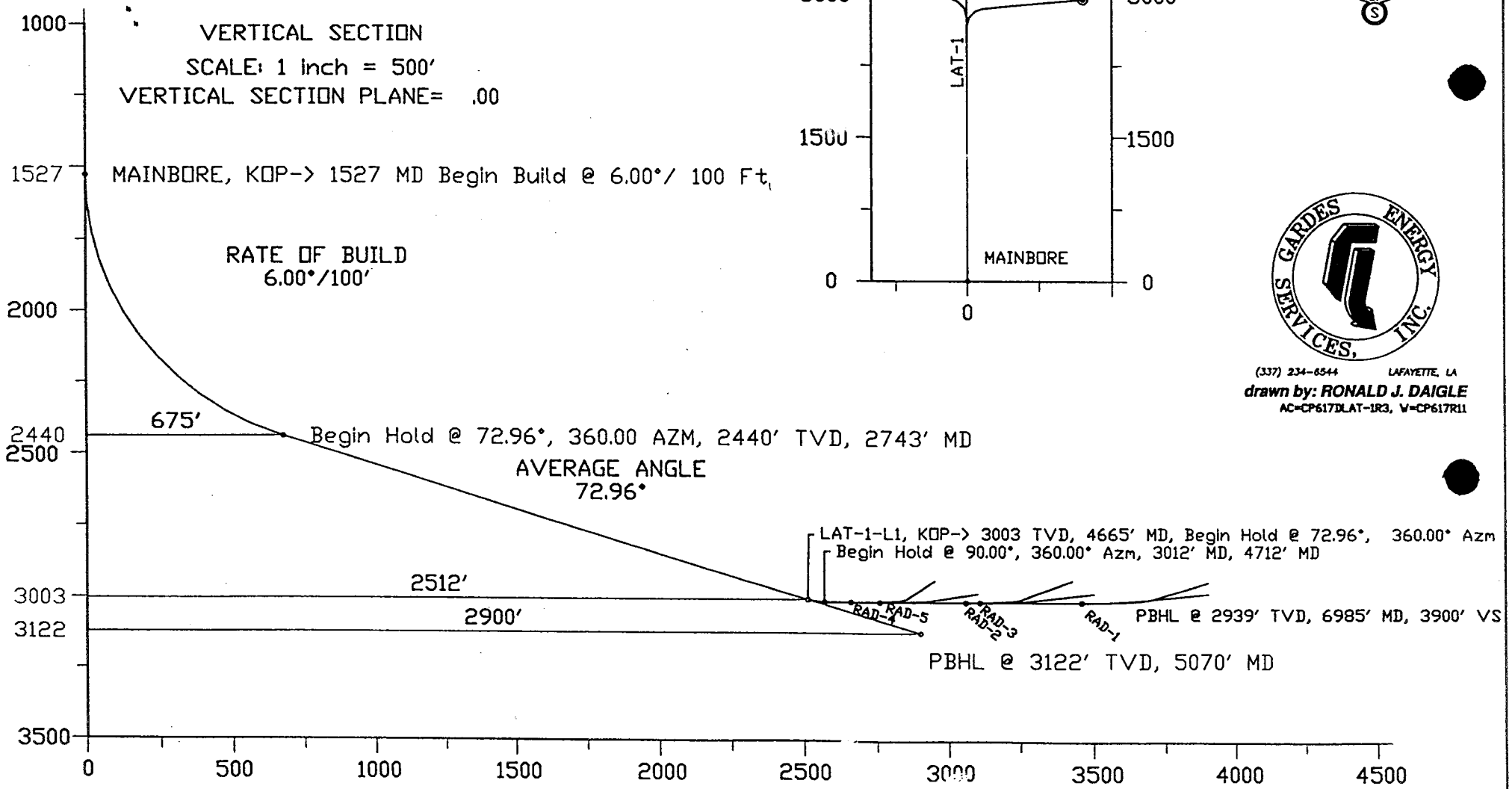
6) TOC at 1500'

7) Well plan & data:
   - TD measured = 5070'
   - TVD at 5070' = 3122'
   - hole angle at 5070' md = 70 deg (tangent)
   - Kickoff point = 1527'
   - Build rate to tangent = 6 deg/100'
   - Frac gradient at +/- 0.7 psi/ft
   - Top Ferron expected at +/- 2900' TVD (md TBA); production cement to cover this as a minimum.
   - Hole to be drilled with air or mist.

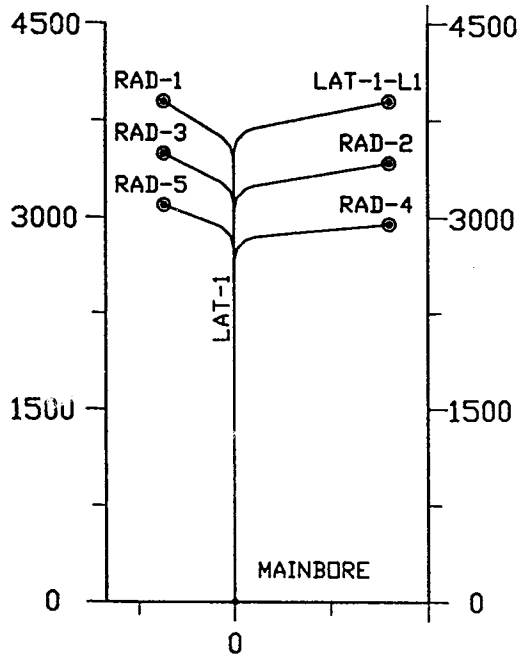
CONOCO-PHILLIPS
WELL, 617-D, MULTI-LAT. UBD, CBM
SEC.-32, T-15-S, R-9-E
CARBON COUNTY, UTAH

LATERAL-1, SEAM # 3

REVISION- 3



PLAN VIEW
SCALE: 1 inch = 1500'



/16/03

GARDES ENERGY SERVICES, INC.

(337) 234-6544 LAFAYETTE, LA

drawn by: RONALD J. DAIGLE

AC=CP617DLAT-1R3, W=CP617R11

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R11.SVY
Rig Name:	Date/Time: 16-Apr-03 / 13:09
RKB:	Curve Name: C1, MAINBORE
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
MAINBORE, KOP-> 1527 MD Begin Build @ 6.00°/ 100 Ft									
1526.94	.00	360.00	1526.94	.00	.00	.00	.00	.00	.00
1626.94	6.00	360.00	1626.76	5.23	.00	5.23	5.23	.00	6.00
1726.94	12.00	360.00	1725.48	20.87	.00	20.87	20.87	.00	6.00
1826.94	18.00	360.00	1822.03	46.74	.00	46.74	46.74	.00	6.00
1926.94	24.00	360.00	1915.35	82.56	.00	82.56	82.56	.00	6.00
2026.94	30.00	360.00	2004.41	127.94	.00	127.94	127.94	.00	6.00
2126.94	36.00	360.00	2088.23	182.38	.00	182.38	182.38	.00	6.00
2226.94	42.00	360.00	2165.91	245.28	.00	245.28	245.28	.00	6.00
2326.94	48.00	360.00	2236.59	315.96	.00	315.96	315.96	.00	6.00
2389.58	51.76	360.00	2276.95	363.85	.00	363.85	363.85	.00	6.00
2426.94	54.00	360.00	2299.49	393.64	.00	393.64	393.64	.00	6.00
2526.94	60.00	360.00	2353.93	477.46	.00	477.46	477.46	.00	6.00
2626.94	66.00	360.00	2399.31	566.52	.00	566.52	566.52	.00	6.00
2726.94	72.00	360.00	2435.13	659.84	.00	659.84	659.84	.00	6.00
Begin Hold @ 72.96°, 360.00 AZM, 2440' TVD, 2743' MD									
2742.87	72.96	360.00	2439.93	675.03	.00	675.03	675.03	.00	6.00
2742.94	72.96	360.00	2439.95	675.10	.00	675.10	675.10	.00	.01
2842.94	72.96	360.00	2469.26	770.71	.00	770.70	770.71	360.00	.00
2942.94	72.96	360.00	2498.57	866.32	.00	866.31	866.32	360.00	.00
3042.94	72.96	360.00	2527.88	961.92	.00	961.92	961.92	360.00	.00
3142.94	72.96	360.00	2557.19	1057.53	.00	1057.53	1057.53	360.00	.00
3242.94	72.96	360.00	2586.50	1153.14	.00	1153.14	1153.14	360.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3342.94	72.96	360.00	2615.81	1248.75	.00	1248.75	1248.75	360.00	.00
3442.94	72.96	360.00	2645.11	1344.36	.00	1344.36	1344.36	360.00	.00
3542.94	72.96	360.00	2674.42	1439.97	.00	1439.97	1439.97	360.00	.00
3642.94	72.96	360.00	2703.73	1535.58	.00	1535.58	1535.58	360.00	.00
3742.94	72.96	360.00	2733.03	1631.19	.00	1631.19	1631.19	360.00	.00
3842.94	72.96	360.00	2762.34	1726.80	.00	1726.80	1726.80	360.00	.00
3942.94	72.96	.00	2791.64	1822.41	.00	1822.40	1822.41	360.00	.00
4042.94	72.96	.00	2820.94	1918.02	.00	1918.01	1918.02	360.00	.00
4142.94	72.96	.00	2850.25	2013.63	.00	2013.62	2013.63	360.00	.00
4242.94	72.96	.00	2879.55	2109.24	.00	2109.23	2109.24	360.00	.00
4342.94	72.96	.00	2908.85	2204.85	.00	2204.85	2204.85	360.00	.00
LAT-3									
4403.86	72.96	.00	2928.16	2267.87	.00	2267.87	2267.87	360.00	.00
4442.94	72.96	.00	2938.15	2300.46	.00	2300.45	2300.46	360.00	.00
4542.94	72.96	.00	2967.45	2396.07	.00	2396.06	2396.07	360.00	.00
LAT-2									
4543.52	72.96	.00	2967.62	2396.62	.00	2396.62	2396.62	360.00	.00
4553.01	72.96	.00	2970.40	2405.69	.00	2405.69	2405.69	360.00	.00
4642.94	72.96	.00	2996.75	2491.68	.00	2491.67	2491.68	360.00	.00
LAT-1, 30-DEG									
4664.68	72.96	.00	3003.12	2512.47	.00	2512.46	2512.47	360.00	.00
4674.17	72.96	.00	3005.90	2521.54	.00	2521.53	2521.54	360.00	.00
4742.94	72.96	.00	3026.05	2587.29	.00	2587.28	2587.29	360.00	.00
4842.94	72.96	.00	3055.35	2682.91	.00	2682.89	2682.91	360.00	.00
4942.94	72.96	.00	3084.65	2778.52	.00	2778.49	2778.52	360.00	.00
5042.94	72.96	.00	3113.94	2874.13	.00	2874.05	2874.13	360.00	.00
PBHL @ 3122' TVD, 5070' MD									
5070.44	72.96	.00	3122.00	2900.42	.00	2900.26	2900.42	360.00	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R11.SVY
Rig Name:	Date/Time: 10-Apr-03 / 11:21
RKB:	Curve Name: C12, LAT-1-L1, 30DEG
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
LAT-1-L1, KOP-> 3003 TVD, 4665' MD, Begin Hold @ 72.96°, 360.00° Azm									
4664.68	72.96	360.00	3003.12	2512.47	.00	2512.47	2512.47	.00	.00
Begin Hold @ 90.00°, 360.00° Azm, 3012' MD, 4712' MD									
4721.48	90.00	360.00	3011.50	2568.44	.00	2568.44	2568.44	.00	30.00
RAD-4									
4812.09	90.00	.00	3011.50	2659.05	.00	2659.05	2659.05	.00	.00
4821.48	90.00	360.00	3011.50	2668.44	.00	2668.44	2668.44	.00	.00
RAD-5									
4912.09	90.00	360.00	3011.50	2759.05	.00	2759.05	2759.05	.00	.00
4921.48	90.00	360.00	3011.50	2768.44	.00	2768.44	2768.44	.00	.00
5021.48	90.00	360.00	3011.50	2868.44	.00	2868.44	2868.44	.00	.00
5121.48	90.00	360.00	3011.50	2968.44	.00	2968.44	2968.44	.00	.00
RAD-2									
5212.09	90.00	360.00	3011.50	3059.05	.00	3059.05	3059.05	.00	.00
5221.48	90.00	.00	3011.50	3068.44	.00	3068.44	3068.44	.00	.00
RAD-3									
5262.09	90.00	360.00	3011.50	3109.05	.00	3109.05	3109.05	.00	.00
5321.48	90.00	.00	3011.50	3168.44	.00	3168.44	3168.44	.00	.00
5421.48	90.00	360.00	3011.50	3268.44	.00	3268.44	3268.44	.00	.00
5521.48	90.00	360.00	3011.50	3368.44	.00	3368.44	3368.44	.00	.00
RAD-1									
5612.09	90.00	360.00	3011.50	3459.05	.00	3459.05	3459.05	.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
5621.48	90.00	.00	3011.50	3468.44	.00	3468.44	3468.44	.00	.00
Begin Build and Turn @ 30.00°/ 100 Ft									
5653.04	90.00	.00	3011.50	3500.00	.00	3500.00	3500.00	.00	.00
5753.04	91.72	29.96	3009.97	3595.49	25.54	3595.49	3595.58	.41	30.00
5853.04	92.97	59.96	3005.78	3665.40	95.32	3665.40	3666.64	1.49	30.00
Begin Hold @ 93.36°, 78.51° Azm									
5914.82	93.36	78.51	3002.33	3687.17	152.74	3687.17	3690.34	2.37	30.00
6014.82	93.36	78.51	2996.47	3707.05	250.57	3707.05	3715.51	3.87	.00
6114.82	93.36	78.51	2990.60	3726.94	348.40	3726.94	3743.18	5.34	.00
6214.82	93.36	78.51	2984.73	3746.82	446.23	3746.82	3773.29	6.79	.00
6314.82	93.36	78.51	2978.86	3766.70	544.05	3766.70	3805.78	8.22	.00
6414.82	93.36	78.51	2972.99	3786.58	641.88	3786.58	3840.60	9.62	.00
6514.82	93.36	78.51	2967.12	3806.46	739.71	3806.46	3877.67	11.00	.00
6614.82	93.36	78.51	2961.25	3826.34	837.54	3826.34	3916.93	12.35	.00
6714.82	93.36	78.51	2955.38	3846.22	935.36	3846.22	3958.32	13.67	.00
6814.82	93.36	78.51	2949.51	3866.10	1033.19	3866.10	4001.78	14.96	.00
6914.82	93.36	78.51	2943.64	3885.98	1131.02	3885.98	4047.23	16.23	.00
PBHL @ 2939' TVD, 6985' MD									
6985.33	93.36	78.51	2939.50	3900.00	1200.00	3900.00	4080.44	17.10	.00

5

Job Number:
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R11.SVY
Date/Time: 10-Apr-03 / 09:12
Curve Name: C3, L-1-RAD-1

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-1, KOP-> 3012 TVD, 5612' MD									
5612.09	90.00	360.00	3011.50	3458.90	.00	3458.90	3458.90	.00	.00
5712.09	91.66	330.04	3010.01	3554.39	-25.54	3554.39	3554.48	359.59	30.00
Begin Hold @ 92.85°, 301.23° Azm, 3006' TVD, 5808' MD									
5808.14	92.85	301.23	3006.15	3622.29	-91.94	3622.29	3623.46	358.55	30.00
5908.14	92.85	301.23	3001.18	3674.07	-177.34	3674.07	3678.35	357.24	.00
6008.14	92.85	301.23	2996.21	3725.85	-262.75	3725.85	3735.10	355.97	.00
6108.14	92.85	301.23	2991.24	3777.63	-348.16	3777.63	3793.64	354.73	.00
6208.14	92.85	301.23	2986.27	3829.41	-433.56	3829.41	3853.87	353.54	.00
6308.14	92.85	301.23	2981.31	3881.19	-518.97	3881.19	3915.73	352.38	.00
PBHL @ 2980' TVD, 6344' MD									
6344.48	92.85	301.23	2979.50	3900.00	-550.00	3900.00	3938.59	351.97	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R11.SVY
Rig Name:	Date/Time: 10-Apr-03 / 09:12
RKB:	Curve Name: C4, L1-RAD-2
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-2, KOP-> 3012 TVD, 5212' MD									
5212.09	90.00	.00	3011.50	3058.90	.00	3058.90	3058.90	.00	.00
5312.09	91.83	29.95	3009.86	3154.39	25.53	3154.39	3154.50	.46	30.00
5412.09	93.18	59.95	3005.39	3224.30	95.30	3224.30	3225.71	1.69	30.00
Begin Hold @ 93.62°, 80.26° Azm, 3001' TVD, 5480' MD									
5479.68	93.62	80.26	3001.34	3247.14	158.40	3247.14	3251.00	2.79	30.00
5579.68	93.62	80.26	2995.02	3264.03	256.76	3264.03	3274.12	4.50	.00
5679.68	93.62	80.26	2988.71	3280.92	355.12	3280.92	3300.09	6.18	.00
5779.68	93.62	80.26	2982.40	3297.81	453.49	3297.81	3328.85	7.83	.00
5879.68	93.62	80.26	2976.09	3314.70	551.85	3314.70	3360.33	9.45	.00
5979.68	93.62	80.26	2969.78	3331.59	650.21	3331.59	3394.45	11.04	.00
6079.68	93.62	80.26	2963.47	3348.48	748.57	3348.48	3431.14	12.60	.00
6179.68	93.62	80.26	2957.16	3365.37	846.93	3365.37	3470.31	14.13	.00
6279.68	93.62	80.26	2950.84	3382.26	945.29	3382.26	3511.88	15.61	.00
6379.68	93.62	80.26	2944.53	3399.15	1043.65	3399.15	3555.76	17.07	.00
6479.68	93.62	80.26	2938.22	3416.04	1142.01	3416.04	3601.88	18.49	.00
PBHL @ 2934' TVD, 6539' MD									
6538.63	93.62	80.26	2934.50	3426.00	1200.00	3426.00	3630.08	19.30	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R11.SVY
Rig Name:	Date/Time: 10-Apr-03 / 09:12
RKB:	Curve Name: C5, L1-RAD-3
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-3, KOP-> 3012 TVD, 5262' MD									
5262.09	90.00	360.00	3011.50	3108.90	.00	3108.90	3108.90	.00	.00
5362.09	91.66	330.04	3010.01	3204.39	-25.54	3204.39	3204.49	359.54	30.00
5462.09	92.88	300.04	3005.95	3274.30	-95.33	3274.30	3275.69	358.33	30.00
Begin Hold @ 92.98°, 296.36° Azm, 3005' TVD, 5474' MD									
5474.37	92.98	296.36	3005.32	3280.09	-106.13	3280.09	3281.81	358.15	30.00
5574.37	92.98	296.36	3000.12	3324.42	-195.62	3324.42	3330.18	356.63	.00
5674.37	92.98	296.36	2994.91	3368.76	-285.10	3368.76	3380.80	355.16	.00
5774.37	92.98	296.36	2989.71	3413.09	-374.59	3413.09	3433.59	353.74	.00
5874.37	92.98	296.36	2984.50	3457.43	-464.07	3457.43	3488.43	352.36	.00
PBHL @ 2979' TVD, 5970' MD									
5970.39	92.98	296.36	2979.50	3500.00	-550.00	3500.00	3542.95	351.07	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R11.SVY
Rig Name:	Date/Time: 10-Apr-03 / 09:12
RKB:	Curve Name: C6, L1-RAD-4
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-4, KOP-> 3012 TVD, 4812' MD									
4812.09	90.00	.00	3011.50	2658.90	.00	2658.90	2658.90	.00	.00
4912.09	91.83	29.95	3009.86	2754.39	25.53	2754.39	2754.51	.53	30.00
5012.09	93.18	59.95	3005.39	2824.30	95.30	2824.30	2825.91	1.93	30.00
Begin Hold @ 93.65°, 84.39° Azm, 3000' TVD, 5093' MD									
5093.44	93.65	84.39	3000.46	2848.98	172.01	2848.98	2854.16	3.46	30.00
5193.44	93.65	84.39	2994.09	2858.73	271.33	2858.73	2871.57	5.42	.00
5293.44	93.65	84.39	2987.72	2868.47	370.65	2868.47	2892.32	7.36	.00
5393.44	93.65	84.39	2981.34	2878.22	469.97	2878.22	2916.34	9.27	.00
5493.44	93.65	84.39	2974.97	2887.97	569.29	2887.97	2943.55	11.15	.00
5593.44	93.65	84.39	2968.60	2897.72	668.61	2897.72	2973.86	12.99	.00
5693.44	93.65	84.39	2962.22	2907.47	767.93	2907.47	3007.17	14.80	.00
5793.44	93.65	84.39	2955.85	2917.22	867.25	2917.22	3043.40	16.56	.00
5893.44	93.65	84.39	2949.48	2926.97	966.57	2926.97	3082.43	18.27	.00
5993.44	93.65	84.39	2943.11	2936.72	1065.89	2936.72	3124.17	19.95	.00
6093.44	93.65	84.39	2936.73	2946.46	1165.21	2946.46	3168.50	21.58	.00
PBHL @ 2934' TVD, 6128' MD									
6128.47	93.65	84.39	2934.50	2949.88	1200.00	2949.88	3184.62	22.14	.00

Job Number:
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R11.SVY
Date/Time: 10-Apr-03 / 09:12
Curve Name: C7, L1-RAD-5

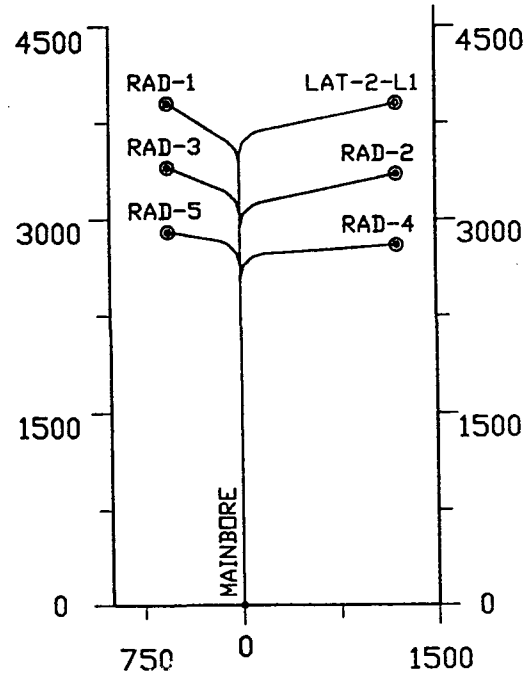
WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

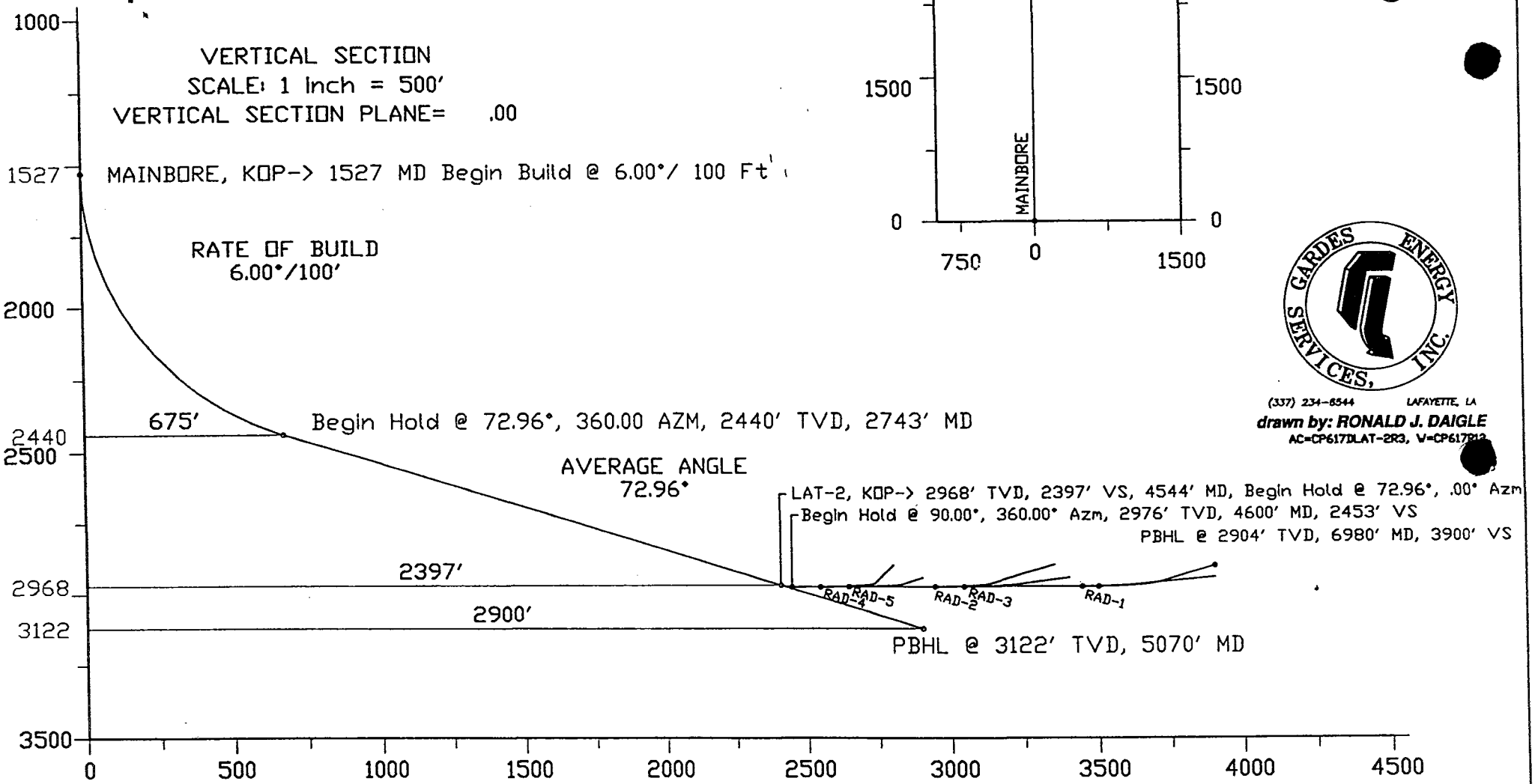
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-5, KOP-> 3012 TVD, 4912' MD									
4912.09	90.00	360.00	3011.50	2758.90	.00	2758.90	2758.90	.00	.00
5012.09	91.66	330.04	3010.01	2854.39	-25.54	2854.39	2854.51	359.49	30.00
5112.09	92.88	300.04	3005.95	2924.30	-95.33	2924.30	2925.85	358.13	30.00
Begin Hold @ 93.11°, 290.84° Azm, 3004' TVD, 5143' MD									
5142.73	93.11	290.84	3004.35	2937.43	-122.93	2937.43	2940.00	357.60	30.00
5242.73	93.11	290.84	2998.92	2972.95	-216.25	2972.95	2980.81	355.84	.00
5342.73	93.11	290.84	2993.49	3008.48	-309.57	3008.48	3024.36	354.12	.00
5442.73	93.11	290.84	2988.06	3044.00	-402.89	3044.00	3070.55	352.46	.00
5542.73	93.11	290.84	2982.63	3079.52	-496.21	3079.52	3119.25	350.85	.00
PBHL @ 2980' TVD, 5600' MD									
5600.37	93.11	290.84	2979.50	3100.00	-550.00	3100.00	3148.41	349.94	.00

CONOCO-PHILLIPS
WELL, 617-D, MULTI-LAT. UBD, CBM
SEC.-32, T-15-S, R-9-E
CARBON COUNTY, UTAH

LATERAL-2, SEAM-2
REVISION-3

PLAN VIEW
SCALE: 1 inch = 1500'





GARDES ENERGY SERVICES, INC.
(337) 234-6544 LAFAYETTE, LA
drawn by: RONALD J. DAIGLE
AC=CP617DLAT-2R3, V=CP617R12

Job Number: NEW, 4/7/03	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R1.SVY
Rig Name:	Date/Time: 16-Apr-03 / 11:35
RKB:	Curve Name: C11, MAINBORE
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
MAINBORE, KOP-> 1527 MD Begin Build @ 6.00°/ 100 Ft									
1526.94	.00	360.00	1526.94	.00	.00	.00	.00	.00	.00
1626.94	6.00	360.00	1626.76	5.23	.00	5.23	5.23	.00	6.00
1726.94	12.00	360.00	1725.48	20.87	.00	20.87	20.87	.00	6.00
1826.94	18.00	360.00	1822.03	46.74	.00	46.74	46.74	.00	6.00
1926.94	24.00	360.00	1915.35	82.56	.00	82.56	82.56	.00	6.00
2026.94	30.00	360.00	2004.41	127.94	.00	127.94	127.94	.00	6.00
2126.94	36.00	360.00	2088.24	182.38	.00	182.38	182.38	.00	6.00
2226.94	42.00	360.00	2165.91	245.28	.00	245.28	245.28	.00	6.00
2326.94	48.00	360.00	2236.59	315.96	.00	315.96	315.96	.00	6.00
2426.94	54.00	360.00	2299.50	393.64	.00	393.64	393.64	.00	6.00
2526.94	60.00	360.00	2353.94	477.46	.00	477.46	477.46	.00	6.00
2626.94	66.00	360.00	2399.31	566.52	.00	566.52	566.52	.00	6.00
2726.94	72.00	360.00	2435.13	659.84	.00	659.84	659.84	.00	6.00
Begin Hold @ 72.96°, 360.00° Azm, 2440' TVD, 2743' MD									
2742.94	72.96	360.00	2439.95	675.10	.00	675.10	675.10	.00	6.00
2842.94	72.96	360.00	2469.25	770.71	.00	770.71	770.71	.00	.00
2942.94	72.96	360.00	2498.56	866.32	.00	866.32	866.32	.00	.00
3042.94	72.96	360.00	2527.86	961.93	.00	961.93	961.93	.00	.00
3142.94	72.96	360.00	2557.17	1057.54	.00	1057.54	1057.54	.00	.00
3242.94	72.96	360.00	2586.47	1153.15	.00	1153.15	1153.15	.00	.00
3342.94	72.96	360.00	2615.77	1248.76	.00	1248.76	1248.76	.00	.00
3442.94	72.96	360.00	2645.08	1344.37	.00	1344.37	1344.37	.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3542.94	72.96	360.00	2674.38	1439.98	.00	1439.98	1439.98	.00	.00
3642.94	72.96	360.00	2703.69	1535.59	.00	1535.59	1535.59	.00	.00
3742.94	72.96	360.00	2732.99	1631.20	.00	1631.20	1631.20	.00	.00
3842.94	72.96	360.00	2762.29	1726.81	.00	1726.81	1726.81	.00	.00
3942.94	72.96	360.00	2791.60	1822.42	.00	1822.42	1822.42	.00	.00
4042.94	72.96	360.00	2820.90	1918.03	.00	1918.03	1918.03	.00	.00
4142.94	72.96	360.00	2850.21	2013.64	.00	2013.64	2013.64	.00	.00
4242.94	72.96	360.00	2879.51	2109.25	.00	2109.25	2109.25	.00	.00
4285.57	72.96	360.00	2892.00	2150.00	.00	2150.00	2150.00	.00	.00
4385.57	72.96	360.00	2921.30	2245.61	.00	2245.53	2245.61	360.00	.00
4396.47	72.96	360.00	2924.50	2256.04	.00	2255.97	2256.04	360.00	.00
LAT-3									
4408.86	72.96	360.00	2928.13	2267.88	.00	2267.82	2267.88	360.00	.00
4410.12	72.96	360.00	2928.50	2269.09	.00	2269.02	2269.09	360.00	.02
4416.95	72.96	.00	2930.50	2275.61	.00	2275.55	2275.61	360.00	.00
4418.35	72.96	360.00	2930.91	2276.95	.00	2276.89	2276.95	360.00	.00
4485.57	72.96	.00	2950.61	2341.22	.00	2341.21	2341.22	360.00	.00
LAT-2									
4543.52	72.96	360.00	2967.59	2396.63	.00	2396.63	2396.63	360.00	.00
4585.57	72.96	360.00	2979.91	2436.83	.00	2436.83	2436.83	360.00	.00
4685.57	72.96	360.00	3009.22	2532.44	.00	2532.44	2532.44	360.00	.00
4785.57	72.96	360.00	3038.52	2628.05	.00	2628.05	2628.05	360.00	.00
4885.57	72.96	360.00	3067.82	2723.66	.00	2723.66	2723.66	360.00	.00
4985.57	72.96	360.00	3097.13	2819.27	.00	2819.27	2819.27	360.00	.00
PBHL @ 3122' TVD, 5070' MD									
5070.44	72.96	360.00	3122.00	2900.42	.00	2900.42	2900.42	360.00	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R12.SVY
Rig Name:	Date/Time: 16-Apr-03 / 09:53
RKB:	Curve Name: C12, LAT-2, REV-3
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
KOP-> 2968 TVD, 4544' MD, Begin Hold @ 72.96°, .00° Azm									
4543.52	72.96	.00	2967.62	2396.62	.00	2396.62	2396.62	.00	.00
Begin Hold @ 90.00°, 360.00° Azm									
4600.32	90.00	.00	2976.00	2452.59	.00	2452.59	2452.59	.00	30.00
RAD-4									
4690.93	90.00	.00	2976.00	2543.20	.00	2543.20	2543.20	.00	.00
4700.32	90.00	360.00	2976.00	2552.59	.00	2552.59	2552.59	.00	.00
RAD-5									
4790.93	90.00	360.00	2976.00	2643.20	.00	2643.20	2643.20	.00	.00
4800.32	90.00	360.00	2976.00	2652.59	.00	2652.59	2652.59	.00	.00
4900.32	90.00	360.00	2976.00	2752.59	.00	2752.59	2752.59	.00	.00
5000.32	90.00	360.00	2976.00	2852.59	.00	2852.59	2852.59	.00	.00
RAD-2									
5090.93	90.00	360.00	2976.00	2943.20	.00	2943.20	2943.20	.00	.00
5100.32	90.00	360.00	2976.00	2952.59	.00	2952.59	2952.59	.00	.00
RAD-3									
5190.93	90.00	360.00	2976.00	3043.20	.00	3043.20	3043.20	.00	.00
5200.32	90.00	360.00	2976.00	3052.59	.00	3052.59	3052.59	.00	.00
5300.32	90.00	360.00	2976.00	3152.59	.00	3152.59	3152.59	.00	.00
5400.32	90.00	360.00	2976.00	3252.59	.00	3252.59	3252.59	.00	.00
5500.32	90.00	360.00	2976.00	3352.59	.00	3352.59	3352.59	.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-1,									
5590.93	90.00	360.00	2976.00	3443.20	.00	3437.08	3443.20	360.00	.00
5600.32	90.00	360.00	2976.00	3452.59	.00	3451.91	3452.59	360.00	.00
Begin Build and Turn @ 30.00°/ 100 Ft									
5647.73	90.00	.00	2976.00	3500.00	.00	3500.00	3500.00	.00	.00
5747.73	91.72	29.96	2974.47	3595.49	25.54	3595.49	3595.58	.41	30.00
5847.73	92.97	59.96	2970.28	3665.40	95.32	3665.40	3666.64	1.49	30.00
Begin Hold @ 93.36°, 78.51° Azm									
5909.51	93.36	78.51	2966.83	3687.17	152.74	3687.17	3690.34	2.37	30.00
6009.51	93.36	78.51	2960.97	3707.05	250.57	3707.05	3715.51	3.87	.00
6109.51	93.36	78.51	2955.10	3726.94	348.40	3726.94	3743.18	5.34	.00
6209.51	93.36	78.51	2949.23	3746.82	446.23	3746.82	3773.29	6.79	.00
6309.51	93.36	78.51	2943.36	3766.70	544.05	3766.70	3805.78	8.22	.00
6409.51	93.36	78.51	2937.49	3786.58	641.88	3786.58	3840.60	9.62	.00
6509.51	93.36	78.51	2931.62	3806.46	739.71	3806.46	3877.67	11.00	.00
6609.51	93.36	78.51	2925.75	3826.34	837.54	3826.34	3916.93	12.35	.00
6709.51	93.36	78.51	2919.88	3846.22	935.36	3846.22	3958.32	13.67	.00
6809.51	93.36	78.51	2914.01	3866.10	1033.19	3866.10	4001.78	14.96	.00
6909.51	93.36	78.51	2908.14	3885.98	1131.02	3885.98	4047.23	16.23	.00
PBHL @ 6980' MD									
6980.02	93.36	78.51	2904.00	3900.00	1200.00	3900.00	4080.44	17.10	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R12.SVY
Rig Name:	Date/Time: 11-Apr-03 / 10:38
RKB:	Curve Name: C3, L2-RAD-1
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-1, KOP-> 2976 TVD, 5591' MD									
5590.93	90.00	360.00	2976.00	3443.05	-.00	3443.05	3443.05	.00	.00
5690.93	91.66	330.04	2974.51	3538.54	-25.54	3538.54	3538.64	359.59	30.00
Begin Hold @ 92.80°, 302.65° Azm, 2971' TVD, 5782' MD									
5782.25	92.80	302.65	2970.88	3603.94	-87.93	3603.94	3605.01	358.60	30.00
5882.25	92.80	302.65	2965.99	3657.82	-172.02	3657.82	3661.86	357.31	.00
5982.25	92.80	302.65	2961.10	3711.71	-256.12	3711.71	3720.53	356.05	.00
6082.25	92.80	302.65	2956.21	3765.59	-340.22	3765.59	3780.93	354.84	.00
6182.25	92.80	302.65	2951.31	3819.47	-424.32	3819.47	3842.97	353.66	.00
6282.25	92.80	302.65	2946.42	3873.36	-508.42	3873.36	3906.58	352.52	.00
PBHL @ 2944' TVD, 6332' MD									
6331.69	92.80	302.65	2944.00	3900.00	-550.00	3900.00	3938.59	351.97	.00

Job Number:
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R12.SVY
Date/Time: 11-Apr-03 / 10:38
Curve Name: C4, L2-RAD-2

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-2, KOP-> 2976 TVD, 5091' MD									
5090.93	90.00	.00	2976.00	2943.05	.00	2943.05	2943.05	.00	.00
5190.93	91.83	29.95	2974.36	3038.54	25.53	3038.54	3038.65	.48	30.00
5290.93	93.18	59.95	2969.89	3108.45	95.30	3108.45	3109.91	1.76	30.00
Begin Hold @ 93.59°, 78.15° Azm, 2966' TVD, 5352' MD									
5351.50	93.59	78.15	2966.28	3129.98	151.53	3129.98	3133.65	2.77	30.00
5451.50	93.59	78.15	2960.01	3150.48	249.20	3150.48	3160.32	4.52	.00
5551.50	93.59	78.15	2953.74	3170.97	346.88	3170.97	3189.89	6.24	.00
5651.50	93.59	78.15	2947.47	3191.47	444.56	3191.47	3222.29	7.93	.00
5751.50	93.59	78.15	2941.21	3211.97	542.23	3211.97	3257.42	9.58	.00
5851.50	93.59	78.15	2934.94	3232.47	639.91	3232.47	3295.20	11.20	.00
5951.50	93.59	78.15	2928.67	3252.96	737.58	3252.96	3335.54	12.78	.00
6051.50	93.59	78.15	2922.40	3273.46	835.26	3273.46	3378.34	14.31	.00
6151.50	93.59	78.15	2916.14	3293.96	932.94	3293.96	3423.52	15.81	.00
6251.50	93.59	78.15	2909.87	3314.45	1030.61	3314.45	3470.99	17.27	.00
6351.50	93.59	78.15	2903.60	3334.95	1128.29	3334.95	3520.64	18.69	.00
PBHL @ 2899' TVD, 6425' MD									
6424.92	93.59	78.15	2899.00	3350.00	1200.00	3350.00	3558.44	19.71	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R12.SVY
Rig Name:	Date/Time: 11-Apr-03 / 10:38
RKB:	Curve Name: C5, L2-RAD-3
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-3, KOP-> 2976 TVD, 5191' MD									
5190.93	90.00	360.00	2976.00	3043.05	.00	3043.05	3043.05	.00	.00
5290.93	91.66	330.04	2974.51	3138.54	-25.54	3138.54	3138.65	359.53	30.00
5390.93	92.88	300.04	2970.45	3208.45	-95.33	3208.45	3209.86	358.30	30.00
Begin Hold @ 93.07°, 292.66° Azm, 2969' TVD, 5416' MD									
5415.50	93.07	292.66	2969.17	3219.33	-117.31	3219.33	3221.47	357.91	30.00
5515.50	93.07	292.66	2963.81	3257.81	-209.45	3257.81	3264.54	356.32	.00
5615.50	93.07	292.66	2958.45	3296.28	-301.60	3296.28	3310.05	354.77	.00
5715.50	93.07	292.66	2953.09	3334.76	-393.75	3334.76	3357.92	353.27	.00
5815.50	93.07	292.66	2947.73	3373.23	-485.89	3373.23	3408.05	351.80	.00
PBHL @ 2944' TVD, 5885' MD									
5885.08	93.07	292.66	2944.00	3400.00	-550.00	3400.00	3444.20	350.81	.00

Job Number:	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R12.SVY
Rig Name:	Date/Time: 11-Apr-03 / 10:38
RKB:	Curve Name: C6, L2-RAD-4
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-4, KOP-> 2976 TVD, 4691' MD									
4690.93	90.00	.00	2976.00	2543.05	.00	2543.05	2543.05	.00	.00
4790.93	91.83	29.95	2974.36	2638.54	25.53	2638.54	2638.67	.55	30.00
4890.93	93.18	59.95	2969.89	2708.45	95.30	2708.45	2710.12	2.02	30.00
Begin Hold @ 93.66°, 86.28° Azm, 2965' TVD, 4979' MD									
4978.57	93.66	86.28	2964.56	2733.64	178.27	2733.64	2739.44	3.73	30.00
5078.57	93.66	86.28	2958.17	2740.10	277.85	2740.10	2754.16	5.79	.00
5178.57	93.66	86.28	2951.78	2746.57	377.44	2746.57	2772.39	7.82	.00
5278.57	93.66	86.28	2945.39	2753.04	477.02	2753.04	2794.06	9.83	.00
5378.57	93.66	86.28	2939.00	2759.51	576.61	2759.51	2819.11	11.80	.00
5478.57	93.66	86.28	2932.61	2765.98	676.19	2765.98	2847.43	13.74	.00
5578.57	93.66	86.28	2926.22	2772.45	775.78	2772.45	2878.94	15.63	.00
5678.57	93.66	86.28	2919.83	2778.91	875.37	2778.91	2913.53	17.48	.00
5778.57	93.66	86.28	2913.44	2785.38	974.95	2785.38	2951.08	19.29	.00
5878.57	93.66	86.28	2907.05	2791.85	1074.54	2791.85	2991.50	21.05	.00
5978.57	93.66	86.28	2900.66	2798.32	1174.12	2798.32	3034.66	22.76	.00
PBHL @ 2899' TVD, 6005' MD									
6004.55	93.66	86.28	2899.00	2800.00	1200.00	2800.00	3046.31	23.20	.00

Job Number:
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R12.SVY
Date/Time: 11-Apr-03 / 10:38
Curve Name: C7, L2-RAD-5

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-5, KOP-> 2976 TVD, 4791' MD									
4790.93	90.00	360.00	2976.00	2643.05	.00	2643.05	2643.05	.00	.00
4890.93	91.66	330.04	2974.51	2738.54	-25.54	2738.54	2738.66	359.47	30.00
4990.93	92.88	300.04	2970.45	2808.45	-95.33	2808.45	2810.07	358.06	30.00
Begin Hold @ 93.28°, 279.95° Azm, 2967' TVD, 5058' MD									
5057.81	93.28	279.95	2966.82	2831.17	-157.76	2831.17	2835.56	356.81	30.00
5157.81	93.28	279.95	2961.10	2848.43	-256.10	2848.43	2859.92	354.86	.00
5257.81	93.28	279.95	2955.38	2865.68	-354.43	2865.68	2887.52	352.95	.00
5357.81	93.28	279.95	2949.66	2882.94	-452.76	2882.94	2918.27	351.07	.00
PBHL @ 2944' TVD, 5457' MD									
5456.69	93.28	279.95	2944.00	2900.00	-550.00	2900.00	2951.69	349.26	.00

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 16-Apr-03 / 11:35
Curve Name: C11, MAINBORE

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
MAINBORE, KOP-> 1527 MD Begin Build @ 6.00°/ 100 Ft									
1526.94	.00	360.00	1526.94	.00	.00	.00	.00	.00	.00
1626.94	6.00	360.00	1626.76	5.23	.00	5.23	5.23	.00	6.00
1726.94	12.00	360.00	1725.48	20.87	.00	20.87	20.87	.00	6.00
1826.94	18.00	360.00	1822.03	46.74	.00	46.74	46.74	.00	6.00
1926.94	24.00	360.00	1915.35	82.56	.00	82.56	82.56	.00	6.00
2026.94	30.00	360.00	2004.41	127.94	.00	127.94	127.94	.00	6.00
2126.94	36.00	360.00	2088.24	182.38	.00	182.38	182.38	.00	6.00
2226.94	42.00	360.00	2165.91	245.28	.00	245.28	245.28	.00	6.00
2326.94	48.00	360.00	2236.59	315.96	.00	315.96	315.96	.00	6.00
2426.94	54.00	360.00	2299.50	393.64	.00	393.64	393.64	.00	6.00
2526.94	60.00	360.00	2353.94	477.46	.00	477.46	477.46	.00	6.00
2626.94	66.00	360.00	2399.31	566.52	.00	566.52	566.52	.00	6.00
2726.94	72.00	360.00	2435.13	659.84	.00	659.84	659.84	.00	6.00
Begin Hold @ 72.96°, 360.00° Azm, 2440' TVD, 2743' MD									
2742.94	72.96	360.00	2439.95	675.10	.00	675.10	675.10	.00	6.00
2842.94	72.96	360.00	2469.25	770.71	.00	770.71	770.71	.00	.00
2942.94	72.96	360.00	2498.56	866.32	.00	866.32	866.32	.00	.00
3042.94	72.96	360.00	2527.86	961.93	.00	961.93	961.93	.00	.00
3142.94	72.96	360.00	2557.17	1057.54	.00	1057.54	1057.54	.00	.00
3242.94	72.96	360.00	2586.47	1153.15	.00	1153.15	1153.15	.00	.00
3342.94	72.96	360.00	2615.77	1248.76	.00	1248.76	1248.76	.00	.00
3442.94	72.96	360.00	2645.08	1344.37	.00	1344.37	1344.37	.00	.00

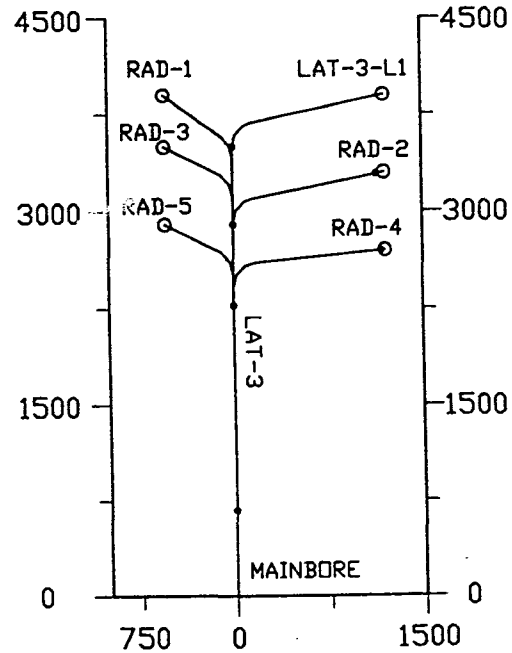
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
3542.94	72.96	360.00	2674.38	1439.98	.00	1439.98	1439.98	.00	.00
3642.94	72.96	360.00	2703.69	1535.59	.00	1535.59	1535.59	.00	.00
3742.94	72.96	360.00	2732.99	1631.20	.00	1631.20	1631.20	.00	.00
3842.94	72.96	360.00	2762.29	1726.81	.00	1726.81	1726.81	.00	.00
3942.94	72.96	360.00	2791.60	1822.42	.00	1822.42	1822.42	.00	.00
4042.94	72.96	360.00	2820.90	1918.03	.00	1918.03	1918.03	.00	.00
4142.94	72.96	360.00	2850.21	2013.64	.00	2013.64	2013.64	.00	.00
4242.94	72.96	360.00	2879.51	2109.25	.00	2109.25	2109.25	.00	.00
4285.57	72.96	360.00	2892.00	2150.00	.00	2150.00	2150.00	.00	.00
4385.57	72.96	360.00	2921.30	2245.61	.00	2245.53	2245.61	360.00	.00
4396.47	72.96	360.00	2924.50	2256.04	.00	2255.97	2256.04	360.00	.00
LAT-3									
4408.86	72.96	360.00	2928.13	2267.88	.00	2267.82	2267.88	360.00	.00
4410.12	72.96	360.00	2928.50	2269.09	.00	2269.02	2269.09	360.00	.02
4416.95	72.96	.00	2930.50	2275.61	.00	2275.55	2275.61	360.00	.00
4418.35	72.96	360.00	2930.91	2276.95	.00	2276.89	2276.95	360.00	.00
448[illegible]57	72.96	.00	2950.61	2341.22	.00	2341.21	2341.22	360.00	.00
LAT-2									
4543.52	72.96	360.00	2967.59	2396.63	.00	2396.63	2396.63	360.00	.00
4585.57	72.96	360.00	2979.91	2436.83	.00	2436.83	2436.83	360.00	.00
4685.57	72.96	360.00	3009.22	2532.44	.00	2532.44	2532.44	360.00	.00
4785.57	72.96	360.00	3038.52	2628.05	.00	2628.05	2628.05	360.00	.00
4885.57	72.96	360.00	3067.82	2723.66	.00	2723.66	2723.66	360.00	.00
4985.57	72.96	360.00	3097.13	2819.27	.00	2819.27	2819.27	360.00	.00
PBHL @ 3122' TVD, 5070' MD									
5070.44	72.96	360.00	3122.00	2900.42	.00	2900.42	2900.42	360.00	.00

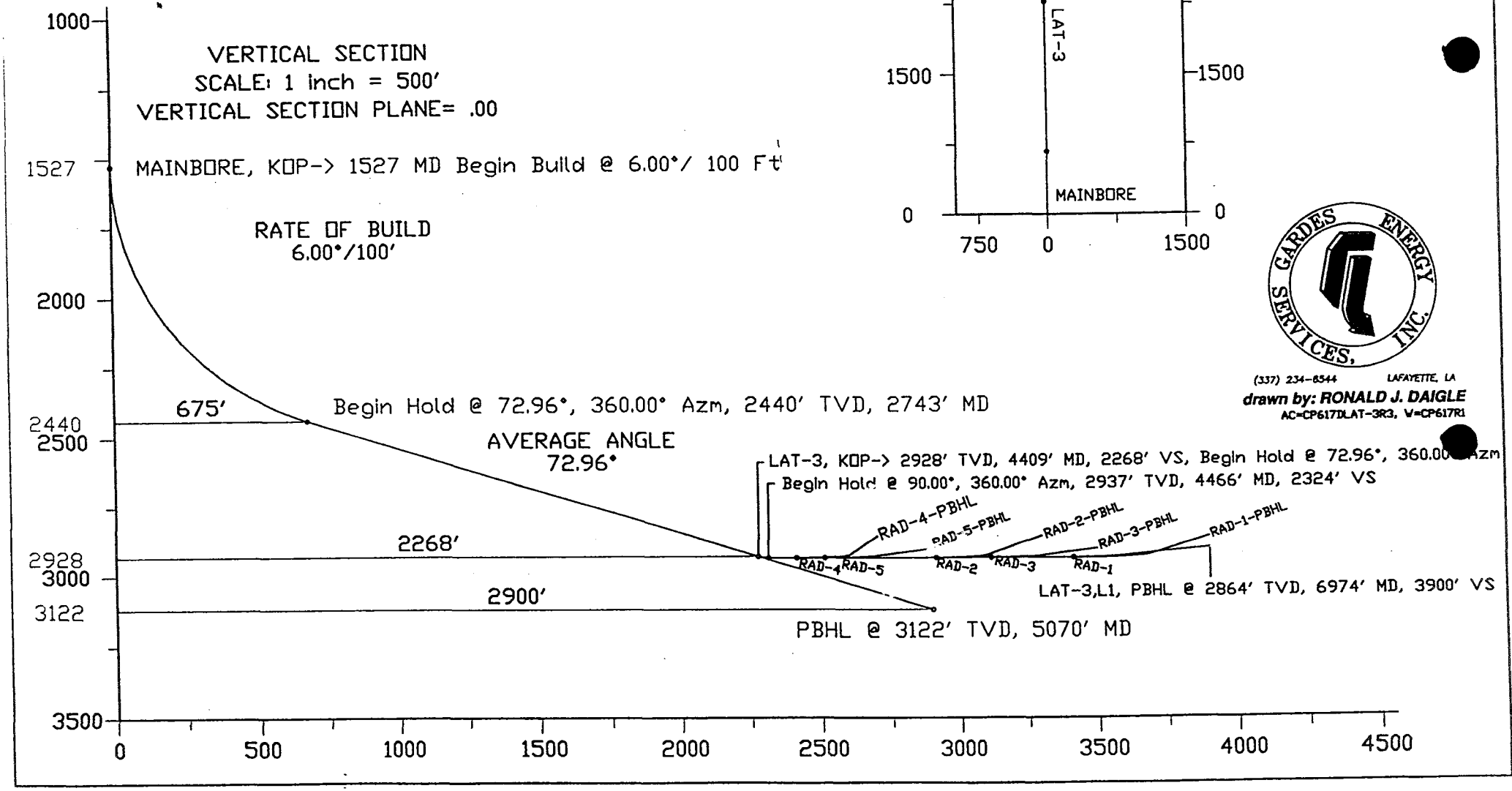
CONOCO-PHILLIPS
WELL, 617-D, MULTI-LAT. UBD, CBM
SEC.-32, T-15-S, R-9-E
CARBON COUNTY, UTAH

LATERAL-3, SEAM # 1

REVISION-3

PLAN VIEW
SCALE: 1 inch = 1500'





GARDES ENERGY SERVICES, INC.
(337) 234-6544 LAFAYETTE, LA
drawn by: RONALD J. DAIGLE
AC=CP617DLAT-3R3, W=CP617R1

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 16-Apr-03 / 10:13
Curve Name: C12, LAT-3-L1

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
LAT-3, KOP-> 2928 TVD, 4409' MD Begin Hold @ 72.96°, 360.00° Azm									
4408.86	72.96	360.00	2928.13	2267.88	.00	2267.88	2267.88	.00	.00
Begin Hold @ 90.00°, 360.00° Azm, 4466' MD									
4465.66	90.00	.00	2936.51	2323.85	.00	2323.85	2323.85	.00	30.00
RAD-4									
4556.27	90.00	360.00	2936.51	2414.46	.00	2414.46	2414.46	360.00	.00
4565.66	90.00	360.00	2936.51	2423.85	.00	2423.85	2423.85	360.00	.00
RAD-5									
4656.27	90.00	360.00	2936.51	2514.46	.00	2514.46	2514.46	360.00	.00
4665.66	90.00	360.00	2936.51	2523.85	.00	2523.85	2523.85	360.00	.00
4765.66	90.00	360.00	2936.51	2623.85	.00	2623.85	2623.85	360.00	.00
4865.66	90.00	360.00	2936.51	2723.85	.00	2723.85	2723.85	360.00	.00
4965.66	90.00	360.00	2936.51	2823.85	.00	2823.85	2823.85	360.00	.00
RAD-2									
5056.27	90.00	360.00	2936.51	2914.46	.00	2914.46	2914.46	360.00	.00
5065.66	90.00	360.00	2936.51	2923.85	.00	2923.85	2923.85	360.00	.00
5165.66	90.00	360.00	2936.51	3023.85	.00	3023.85	3023.85	360.00	.00
RAD-3									
5256.27	90.00	360.00	2936.51	3114.46	.00	3114.46	3114.46	360.00	.00
5265.66	90.00	360.00	2936.51	3123.85	.00	3123.85	3123.85	360.00	.00
5365.66	90.00	360.00	2936.51	3223.85	.00	3223.85	3223.85	360.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
5465.66	90.00	360.00	2936.51	3323.85	.00	3323.85	3323.85	360.00	.00
RAD-1									
5556.27	90.00	360.00	2936.51	3414.46	.00	3414.46	3414.46	360.00	.00
5565.66	90.00	360.00	2936.51	3423.85	.00	3423.85	3423.85	360.00	.00
Begin Build and Turn @ 30.00°/ 100 Ft, 5642' MD									
5641.81	90.00	.00	2936.51	3500.00	.00	3500.00	3500.00	360.00	.00
5741.81	91.73	29.95	2934.97	3595.49	25.54	3595.49	3595.58	.41	30.00
5841.81	92.99	59.95	2930.75	3665.40	95.32	3665.40	3666.64	1.49	30.00
Begin Hold @ 93.39°, 78.51° Azm, 5904' MD									
5903.59	93.39	78.51	2927.28	3687.17	152.74	3687.17	3690.34	2.37	30.00
6003.59	93.39	78.51	2921.37	3707.05	250.56	3707.05	3715.51	3.87	.00
6103.59	93.39	78.51	2915.46	3726.93	348.39	3726.93	3743.18	5.34	.00
6203.59	93.39	78.51	2909.55	3746.81	446.22	3746.81	3773.29	6.79	.00
6303.59	93.39	78.51	2903.64	3766.69	544.04	3766.69	3805.78	8.22	.00
6403.59	93.39	78.51	2897.72	3786.58	641.87	3786.58	3840.59	9.62	.00
6503.59	93.39	78.51	2891.81	3806.46	739.69	3806.46	3877.66	11.00	.00
6603.59	93.39	78.51	2885.90	3826.34	837.52	3826.34	3916.92	12.35	.00
6703.59	93.39	78.51	2879.99	3846.22	935.34	3846.22	3958.31	13.67	.00
6803.59	93.39	78.51	2874.08	3866.10	1033.17	3866.10	4001.77	14.96	.00
6903.59	93.39	78.51	2868.17	3885.98	1130.99	3885.98	4047.22	16.23	.00
PBHL @ 2864' TVD, 6974' MD									
6974.13	93.39	78.51	2864.00	3900.00	1200.00	3900.00	4080.44	17.10	.00

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 08-Apr-03 / 09:04
Curve Name: C13, RAD-1

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
KOP-> 2937 TVD									
5556.27	90.00	360.00	2936.51	3414.31	.00	3414.31	3414.31	.00	.00
5656.27	91.69	330.04	2935.00	3509.80	-25.54	3509.80	3509.90	359.58	30.00
Begin Hold @ 92.77°, 305.09° Azm, 2932' TVD, 5739' MD									
5739.47	92.77	305.09	2931.71	3570.68	-81.19	3570.68	3571.60	358.70	30.00
5839.47	92.77	305.09	2926.88	3628.10	-162.92	3628.10	3631.75	357.43	.00
5939.47	92.77	305.09	2922.05	3685.51	-244.66	3685.51	3693.62	356.20	.00
6039.47	92.77	305.09	2917.22	3742.92	-326.39	3742.92	3757.13	355.02	.00
6139.47	92.77	305.09	2912.39	3800.34	-408.12	3800.34	3822.19	353.87	.00
6239.47	92.77	305.09	2907.56	3857.75	-489.86	3857.75	3888.73	352.76	.00
PBHL @ 2904' TVD, 6313' MD									
6313.06	92.77	305.09	2904.00	3900.00	-550.00	3900.00	3938.59	351.97	.00

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 08-Apr-03 / 09:04
Curve Name: C14, RAD-2

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-2, KOP-> 2937 TVD, 5056' MD									
5056.27	90.00	.00	2936.51	2914.31	.00	2914.31	2914.31	.00	.00
5156.27	91.85	29.95	2934.86	3009.80	25.53	3009.80	3009.91	.49	30.00
5256.27	93.20	59.95	2930.35	3079.71	95.29	3079.71	3081.18	1.77	30.00
Begin Hold @ 93.63°, 79.27° Azm, 2926' TVD, 5321' MD									
5320.57	93.63	79.27	2926.49	3101.97	155.17	3101.97	3105.85	2.86	30.00
5420.57	93.63	79.27	2920.15	3120.55	253.22	3120.55	3130.81	4.64	.00
5520.57	93.63	79.27	2913.82	3139.14	351.28	3139.14	3158.73	6.38	.00
5620.57	93.63	79.27	2907.49	3157.72	449.33	3157.72	3189.53	8.10	.00
5720.57	93.63	79.27	2901.15	3176.31	547.38	3176.31	3223.13	9.78	.00
5820.57	93.63	79.27	2894.82	3194.89	645.44	3194.89	3259.44	11.42	.00
5920.57	93.63	79.27	2888.49	3213.48	743.49	3213.48	3298.36	13.03	.00
6020.57	93.63	79.27	2882.15	3232.06	841.54	3232.06	3339.82	14.59	.00
6120.57	93.63	79.27	2875.82	3250.64	939.60	3250.64	3383.72	16.12	.00
6220.57	93.63	79.27	2869.49	3269.23	1037.65	3269.23	3429.95	17.61	.00
6320.57	93.63	79.27	2863.15	3287.81	1135.70	3287.81	3478.44	19.06	.00
PBHL @ 2859' TVD, 6386' MD									
6386.14	93.63	79.27	2859.00	3300.00	1200.00	3300.00	3511.41	19.98	.00

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 08-Apr-03 / 09:04
Curve Name: C15, RAD-3

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-3, KOP-> 2937 TVD, 5256' MD									
5256.27	90.00	360.00	2936.51	3114.31	.00	3114.31	3114.31	.00	.00
5356.27	91.69	330.04	2935.00	3209.80	-25.54	3209.80	3209.90	359.54	30.00
5456.27	92.93	300.04	2930.88	3279.71	-95.33	3279.71	3281.09	358.34	30.00
Begin Hold @ 93.05°, 295.79° Azm, 2930' TVD, 5470' MD									
5470.43	93.05	295.79	2930.14	3286.33	-107.82	3286.33	3288.10	358.12	30.00
5570.43	93.05	295.79	2924.82	3329.78	-197.73	3329.78	3335.64	356.60	.00
5670.43	93.05	295.79	2919.51	3373.22	-287.64	3373.22	3385.46	355.13	.00
5770.43	93.05	295.79	2914.19	3416.67	-377.55	3416.67	3437.47	353.69	.00
5870.43	93.05	295.79	2908.88	3460.12	-467.47	3460.12	3491.55	352.31	.00
PBHL @ 2904' TVD, 5962' MD									
5962.23	93.05	295.79	2904.00	3500.00	-550.00	3500.00	3542.95	351.07	.00

Job Number: NEW, 4/7/03
Company: CONOCO-PHILLIPS,
Lease/Well: NEW 617D, ML,UBD,CBM
Location: SEC.T32-15S-9E
Rig Name:
RKB:
G.L. or M.S.L.:

State/Country: CARBON COUNTY, UTAH
Declination:
Grid:
File name: E:\RON\SURVEYS\CP617R1.SVY
Date/Time: 08-Apr-03 / 09:09
Curve Name: C16, RAD-4

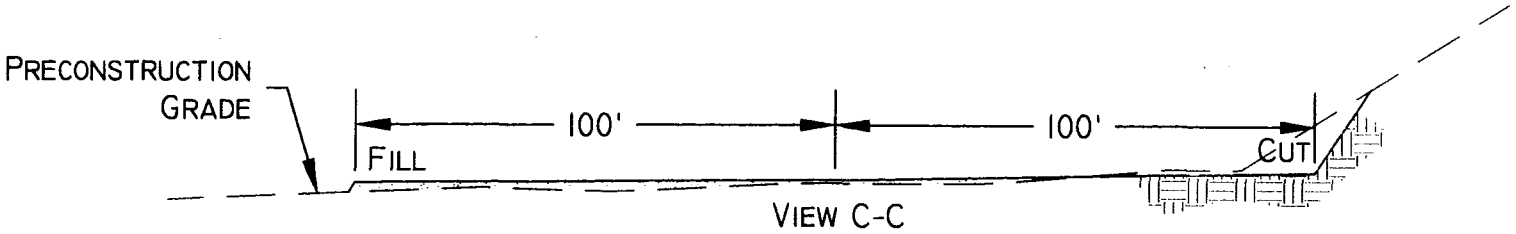
WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

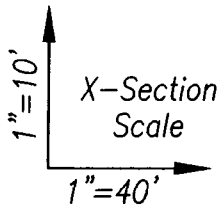
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-4, KOP-> 2937 TVD, 4556' MD									
4556.27	90.00	.00	2936.51	2414.31	.00	2414.31	2414.31	.00	.00
4656.27	91.85	29.95	2934.86	2509.80	25.53	2509.80	2509.93	.58	30.00
4756.27	93.20	59.95	2930.35	2579.71	95.29	2579.71	2581.47	2.12	30.00
Begin Hold @ 93.68°, 84.69° Azm, 2925' TVD, 4839' MD									
4838.59	93.68	84.69	2925.34	2604.48	172.98	2604.48	2610.22	3.80	30.00
4938.59	93.68	84.69	2918.92	2613.72	272.34	2613.72	2627.87	5.95	.00
5038.59	93.68	84.69	2912.50	2622.96	371.71	2622.96	2649.17	8.07	.00
5138.59	93.68	84.69	2906.08	2632.20	471.07	2632.20	2674.02	10.15	.00
5238.59	93.68	84.69	2899.66	2641.45	570.43	2641.45	2702.34	12.19	.00
5338.59	93.68	84.69	2893.25	2650.69	669.80	2650.69	2734.00	14.18	.00
5438.59	93.68	84.69	2886.83	2659.93	769.16	2659.93	2768.91	16.13	.00
5538.59	93.68	84.69	2880.41	2669.17	868.53	2669.17	2806.92	18.02	.00
5638.59	93.68	84.69	2873.99	2678.41	967.89	2678.41	2847.93	19.87	.00
5738.59	93.68	84.69	2867.57	2687.65	1067.26	2687.65	2891.80	21.66	.00
5838.59	93.68	84.69	2861.16	2696.90	1166.62	2696.90	2938.41	23.39	.00
PBHL @ 2859 TVD, 5872' MD									
5872.18	93.68	84.69	2859.00	2700.00	1200.00	2700.00	2954.66	23.96	.00

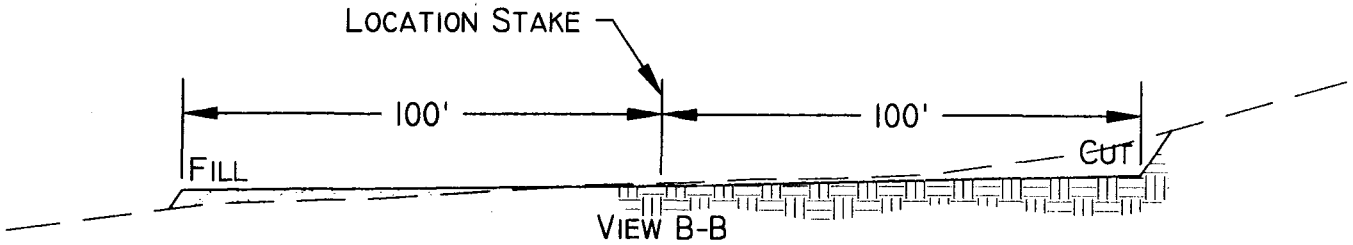
Job Number: NEW, 4/7/03	State/Country: CARBON COUNTY, UTAH
Company: CONOCO-PHILLIPS,	Declination:
Lease/Well: NEW 617D, ML,UBD,CBM	Grid:
Location: SEC.T32-15S-9E	File name: E:\RON\SURVEYS\CP617R1.SVY
Rig Name:	Date/Time: 08-Apr-03 / 09:05
RKB:	Curve Name: C17, RAD-5
G.L. or M.S.L.:	

WINSERVE SURVEY CALCULATIONS
Minimum Curvature Method
Vertical Section Plane .00
Vertical Section Referenced to Wellhead
Rectangular Coordinates Referenced to Wellhead

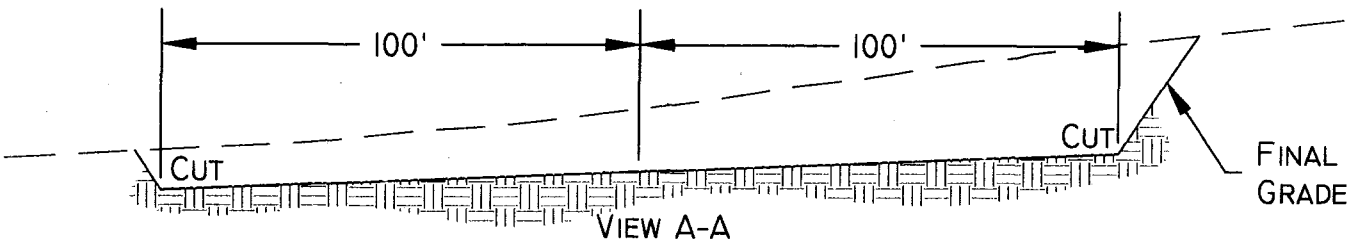
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	CLOSURE Direction Deg	Dogleg Severity Deg/100
RAD-5, KOP-> 2937 TVD, 4656' MD									
4656.27	90.00	360.00	2936.51	2514.31	.00	2514.31	2514.31	.00	.00
4756.27	91.69	330.04	2935.00	2609.80	-25.54	2609.80	2609.93	359.44	30.00
4856.27	92.93	300.04	2930.88	2679.71	-95.33	2679.71	2681.40	357.96	30.00
Begin Hold @ 93.05°, 295.79° Azm, 2930' TVD, 4870' MD									
4870.43	93.05	295.79	2930.14	2686.33	-107.82	2686.33	2688.49	357.70	30.00
4970.43	93.05	295.79	2924.82	2729.78	-197.73	2729.78	2736.93	355.86	.00
5070.43	93.05	295.79	2919.51	2773.22	-287.64	2773.22	2788.10	354.08	.00
5170.43	93.05	295.79	2914.19	2816.67	-377.55	2816.67	2841.86	352.37	.00
5270.43	93.05	295.79	2908.88	2860.12	-467.47	2860.12	2898.07	350.72	.00
PBHL @ 2904' TVD, 5362' MD									
5362.23	93.05	295.79	2904.00	2900.00	-550.00	2900.00	2951.69	349.26	.00







SLOPE = 1 1/2 : 1
(EXCEPT PIT)
PIT SLOPE = 1 ; 1



APPROXIMATE YARDAGES
CUT
(6")TOPSOIL STRIPPING = 750 CU. YDS.
REMAINING LOCATION = 2,690 CU, YDS.
TOTAL CUT = 2,690 CU. YDS.
TOTAL FILL = 305 CU. YDS.

TALON RESOURCES, INC
195 North 100 West P.O. Box 1230
Huntington, Utah 84528
Phone (435)687-5310 Fax (435)687-5311
E-Mail talonsetv.net

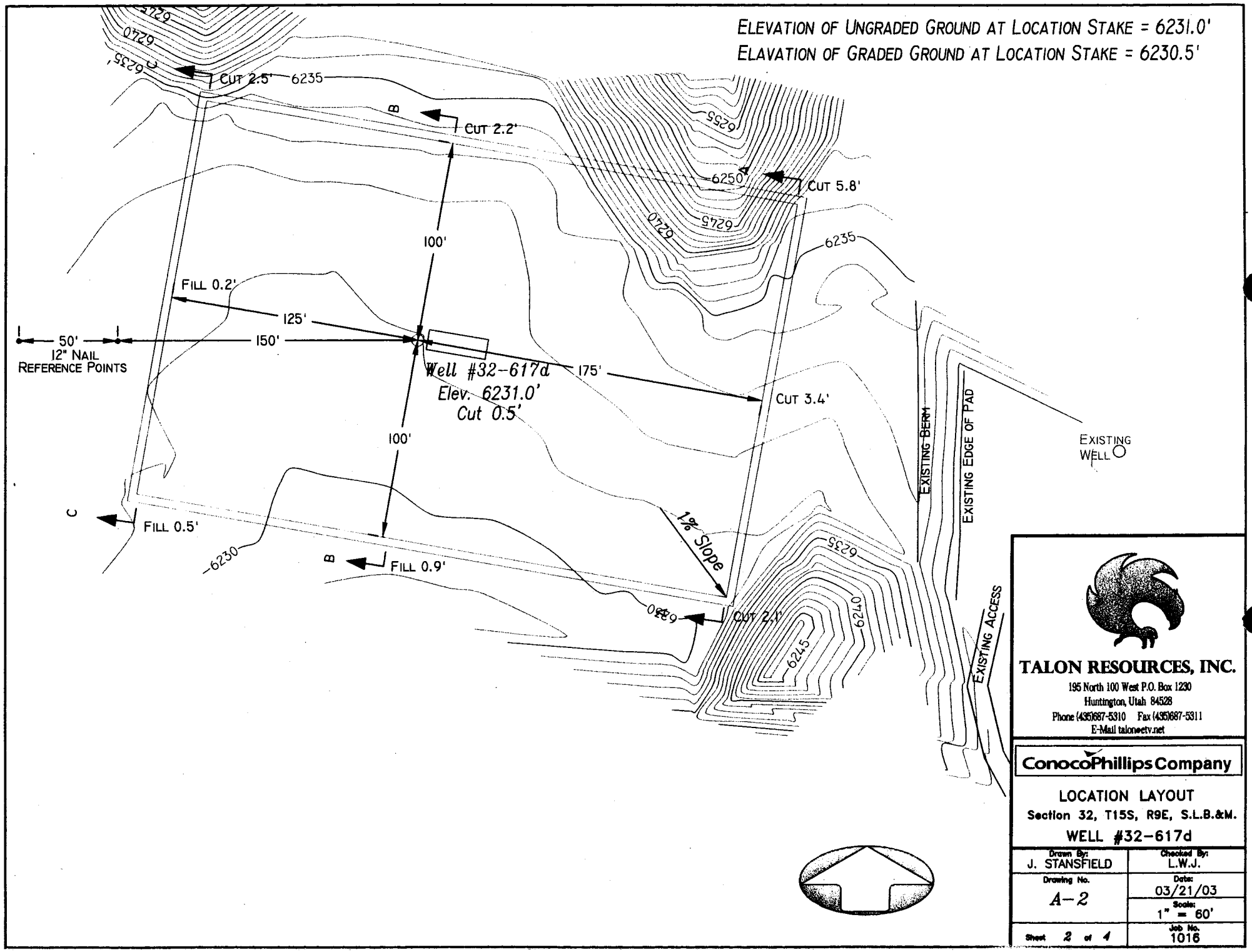
ConocoPhillips Company

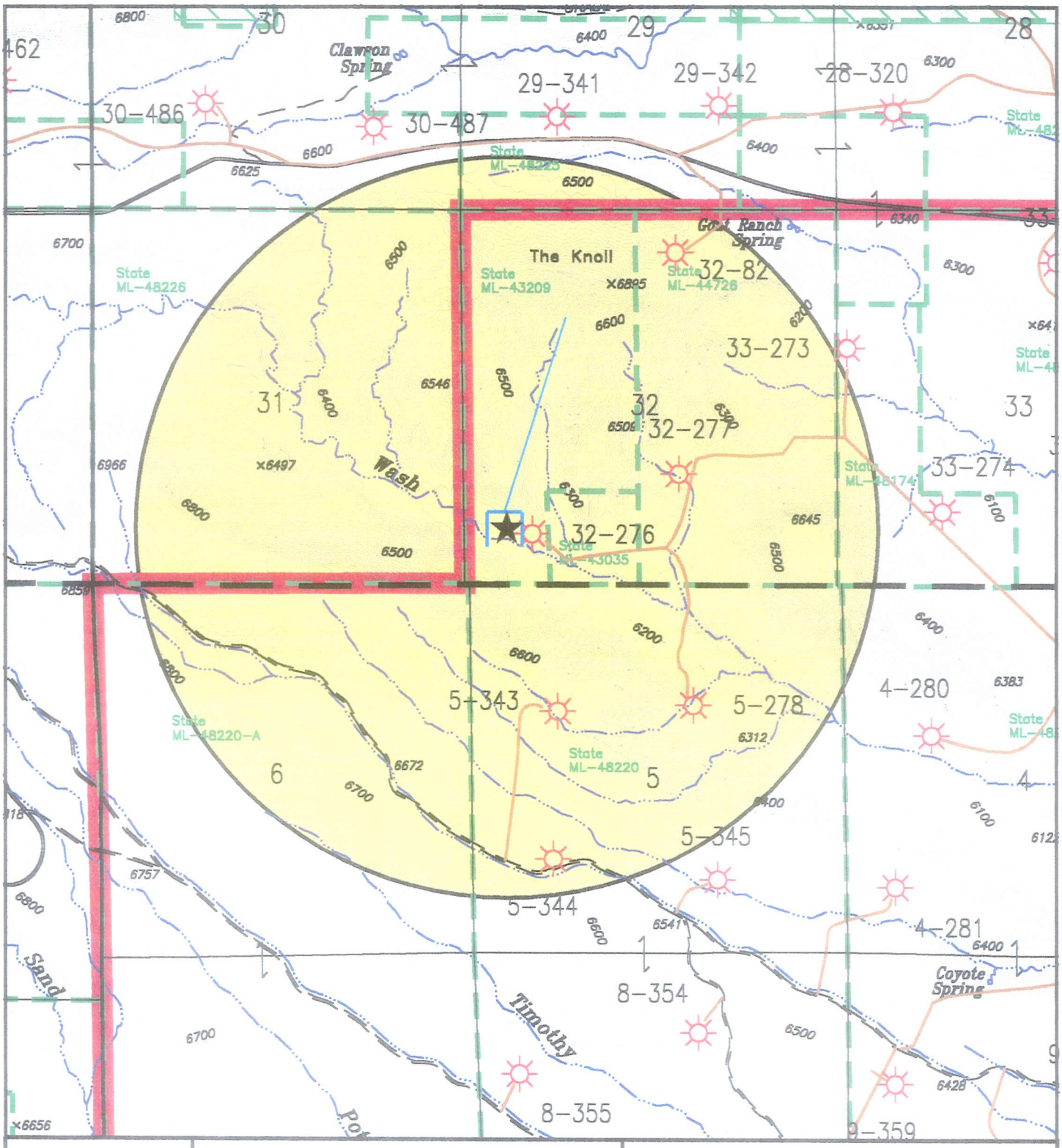
TYPICAL CROSS SECTION
Section 32, T15S, R9E, S.L.B.&M.
WELL #32-617d

Drawn By: J. STANSFIELD	Checked By: L.W.J.
Drawing No. C-1	Date: 03/21/03
	Scale: 1" = 40'
Sheet 3 of 4	Job No. 1016

Exhibit "A" 2 of 3

ELEVATION OF UNGRADED GROUND AT LOCATION STAKE = 6231.0'
ELAVATION OF GRADED GROUND AT LOCATION STAKE = 6230.5'





LEGEND

Proposed Well Location:
Other Proposed Well Locations:
Proposed Powerline:
Proposed Pipeline:
Proposed Roads:
Lease Boundary:
Existing Wells:

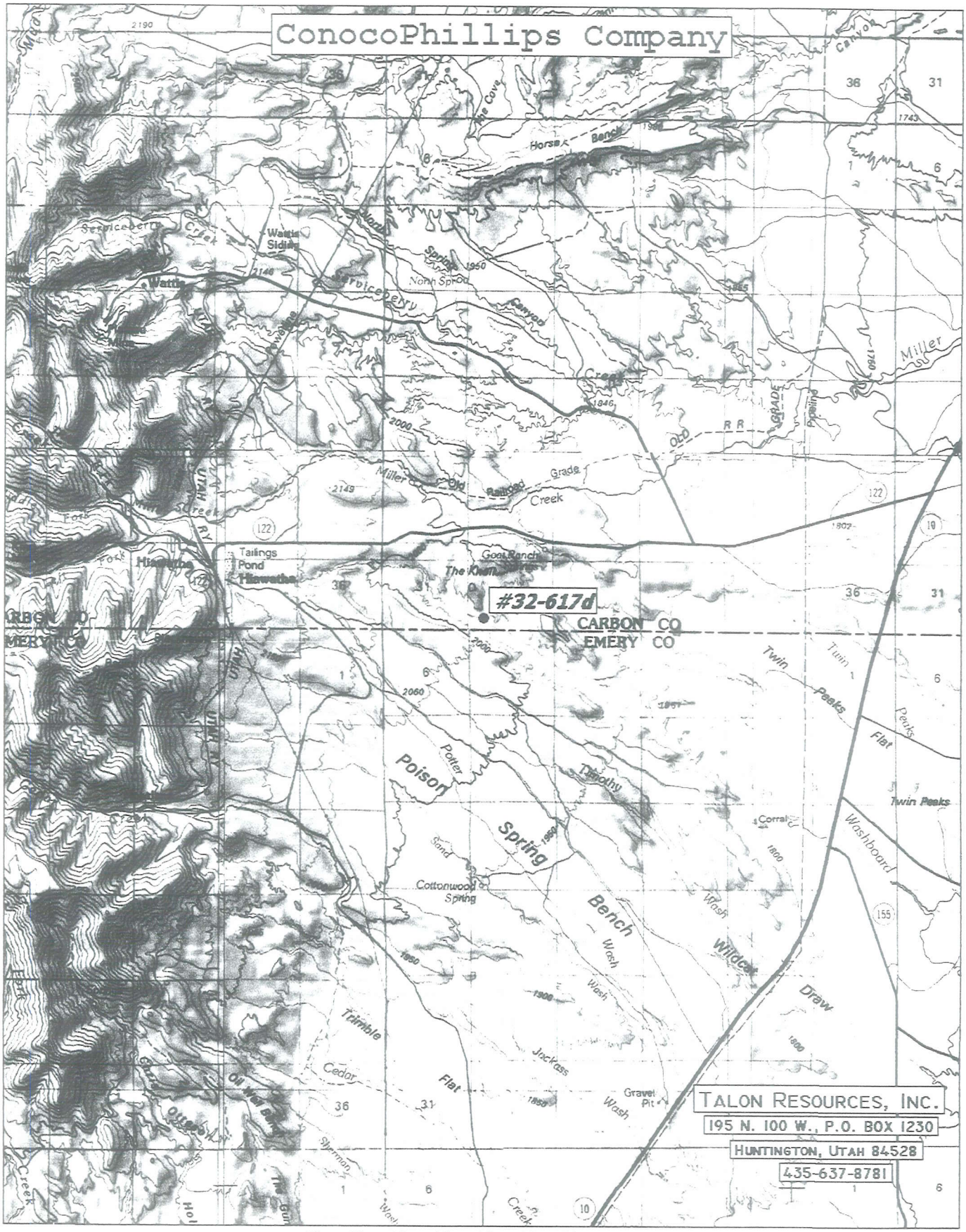
Scale: 1" = 2000'

March 27, 2003

ConocoPhillips
6825 South 5300 West
P.O. Box 851
Price, Utah 84501
Phone: (435) 613-9777
Fax: (435) 613-9782

ConocoPhillips Company

WELL # 32-617D
Section 32, T15S, R9E, S.L.B.&M.
Exhibit B 1 of 2



0.0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 miles
0 1 2 3 4 5 km

Map created with TOPO!® ©2001 National Geographic (www.nationalgeographic.com/topo)

EXHIBIT C

CONOCOPHILLIPS

RIG LAYOUT (Approximately 250' x 325') Including Mud Pit

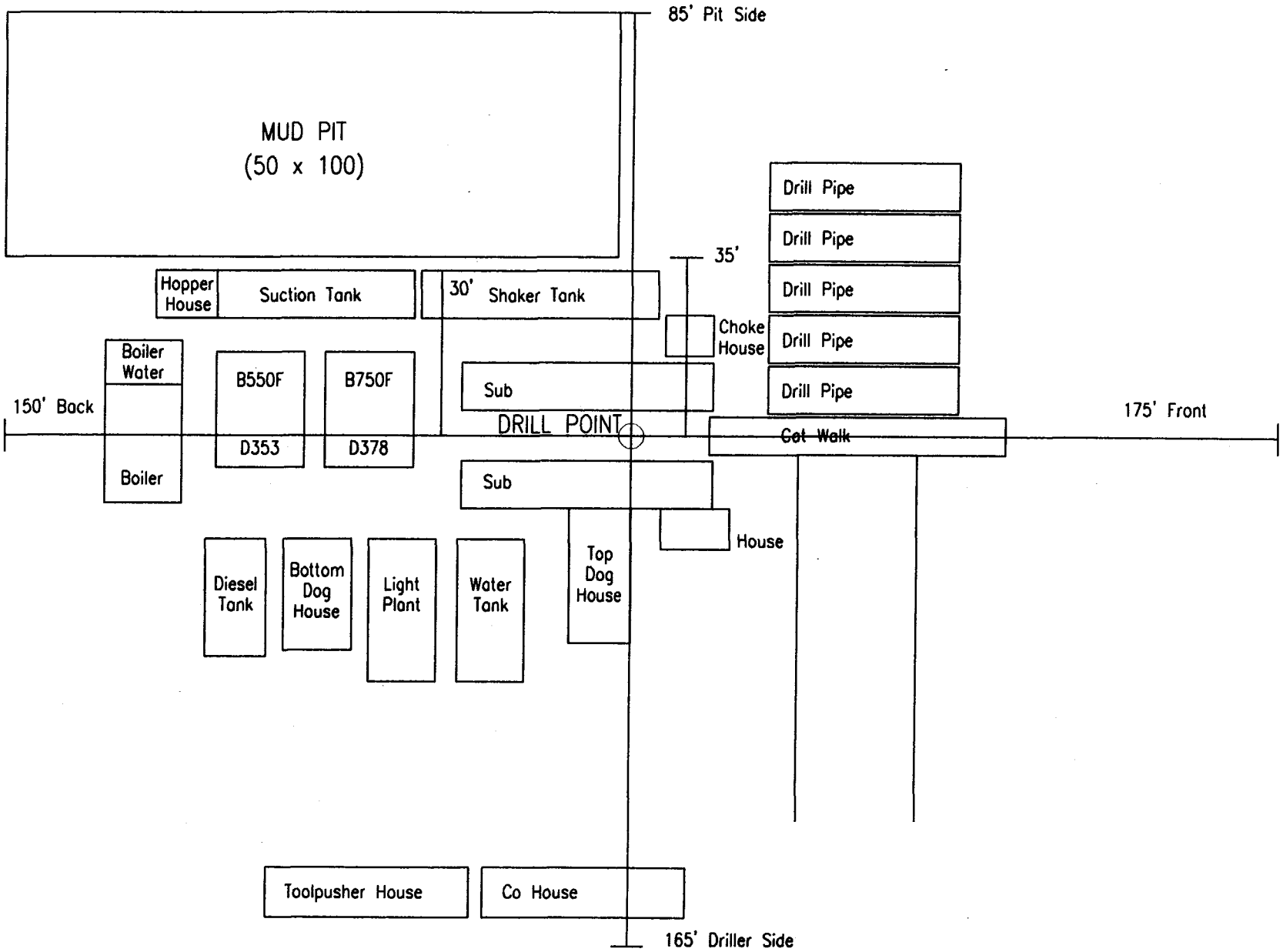
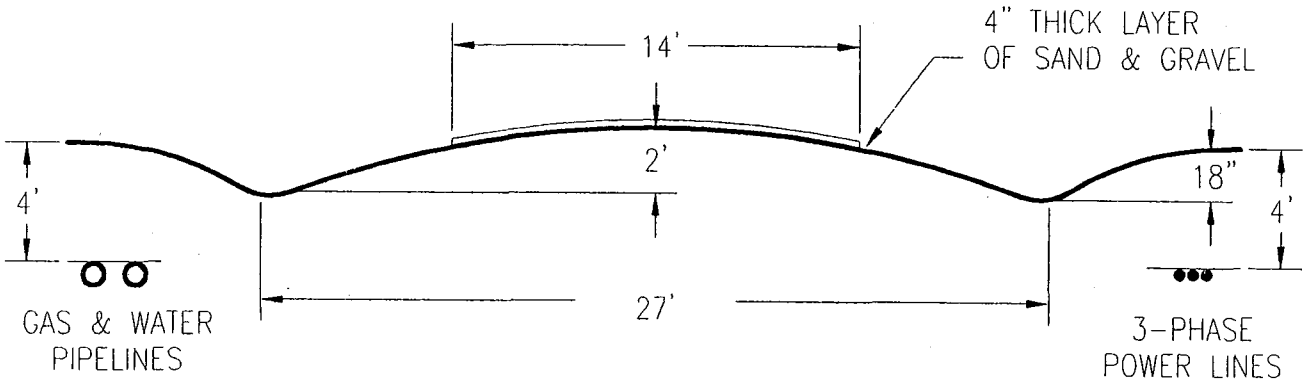


EXHIBIT F

TYPICAL ROAD CROSS-SECTION



DIVERTER HEAD

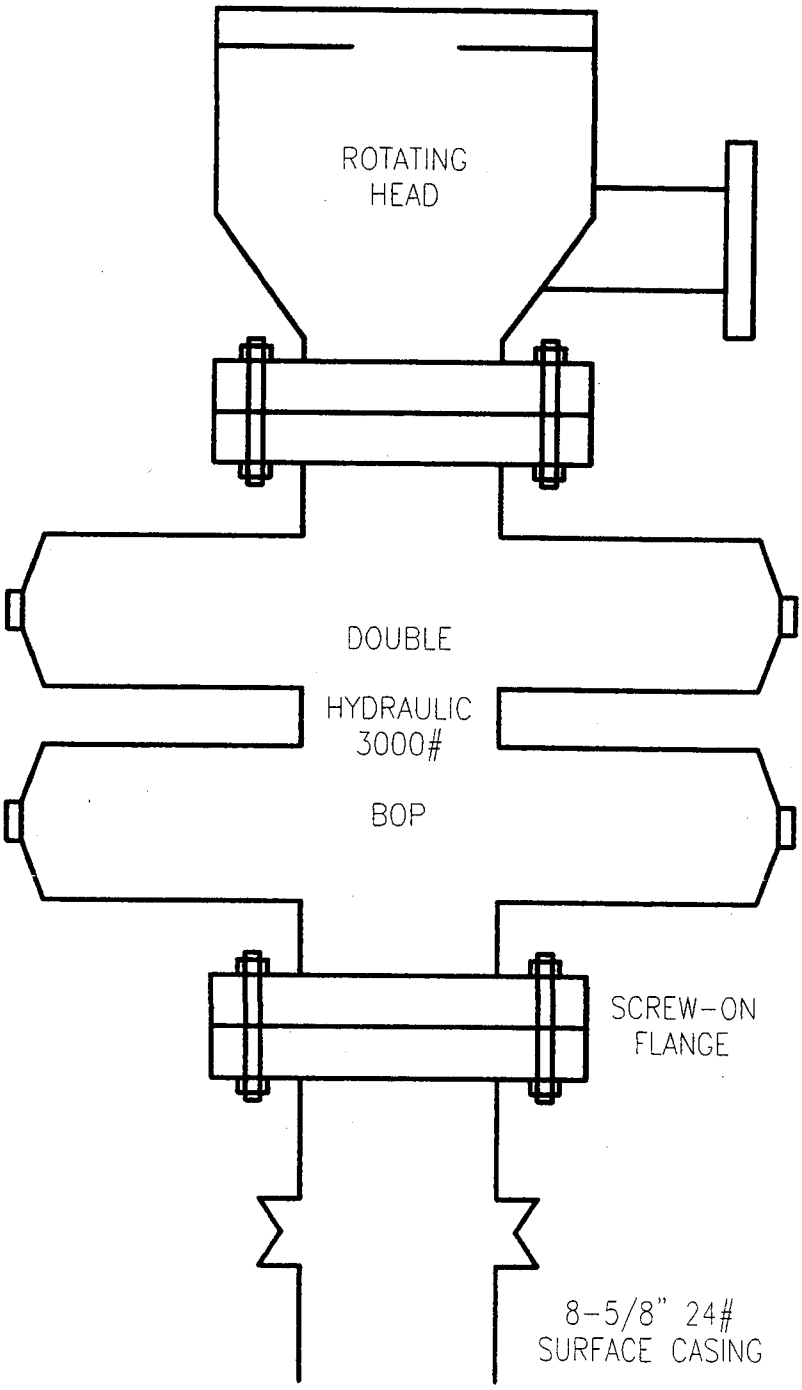
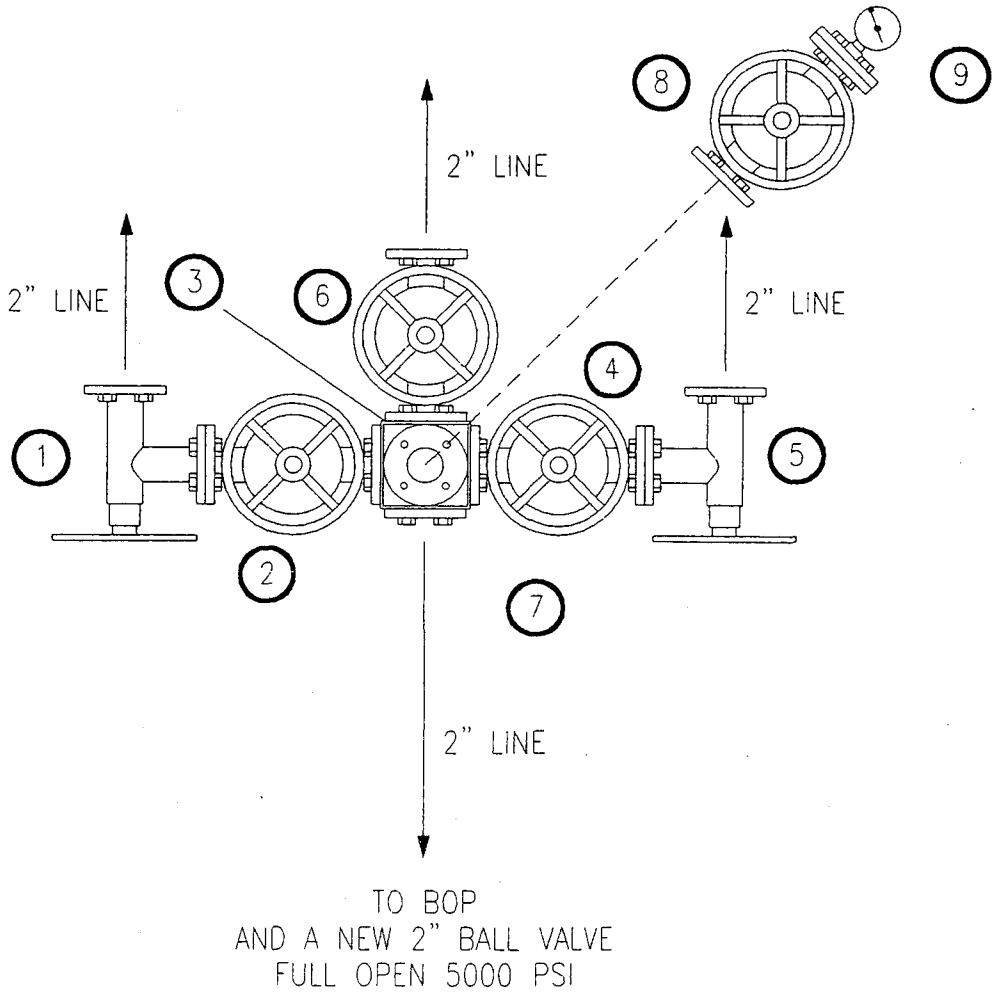


EXHIBIT G

(1) 2" 5M FLANGED CHOKE
(2) 2" 5M GATE VALVE (FLANGED)
(3) 2" 5M STUDDED CROSS
(4) 2" 5M GATE VALVE (FLANGED)
(5) 2" 5M FLANGED CHOKE
(6) 2" 5M GATE VALVE (FLANGED)
(7) 2" LINE
(8) 2" 5M GATE VALVE (FLANGED)
(9) 3000# GAUGE

NOTE:
NUMBER 8 GATE VALVE SITS ON TOP OF MANIFOLD BETWEEN STUDDED CROSS AND 3000# GAUGE.



MANIFOLD

EXHIBIT H

SURETY RIDER

To be attached to and form a part of

Bond No. **5952189**

Type of Bond: BOND OF LESSEE

dated effective 01/31/2001
(MONTH-DAY-YEAR)

executed by PHILLIPS PETROLEUM COMPANY ,as Principal,
(PRINCIPAL)

and by SAFECO INSURANCE COMPANY OF AMERICA ,as Surety,

in favor of STATE OF UTAH
(OBLIGEE)

in consideration of the mutual agreements herein contained the Principal and the Surety hereby consent to changing

PRINCIPAL NAME IS HEREBY AMENDED FROM PHILLIPS PETROLEUM COMPANY TO CONOCOPHILLIPS COMPANY.

Nothing herein contained shall vary, alter or extend any provision or condition of this bond except as herein expressly stated.

This rider is effective 01/01/2003
(MONTH-DAY-YEAR)

Signed and Sealed 02/28/2003
(MONTH-DAY-YEAR)

CONOCOPHILLIPS COMPANY
(PRINCIPAL)

By: P. Boggins
(PRINCIPAL) Pam Boggins, Its Agent & Attorney-in-Fact

SAFECO INSURANCE COMPANY OF AMERICA
(SURETY)

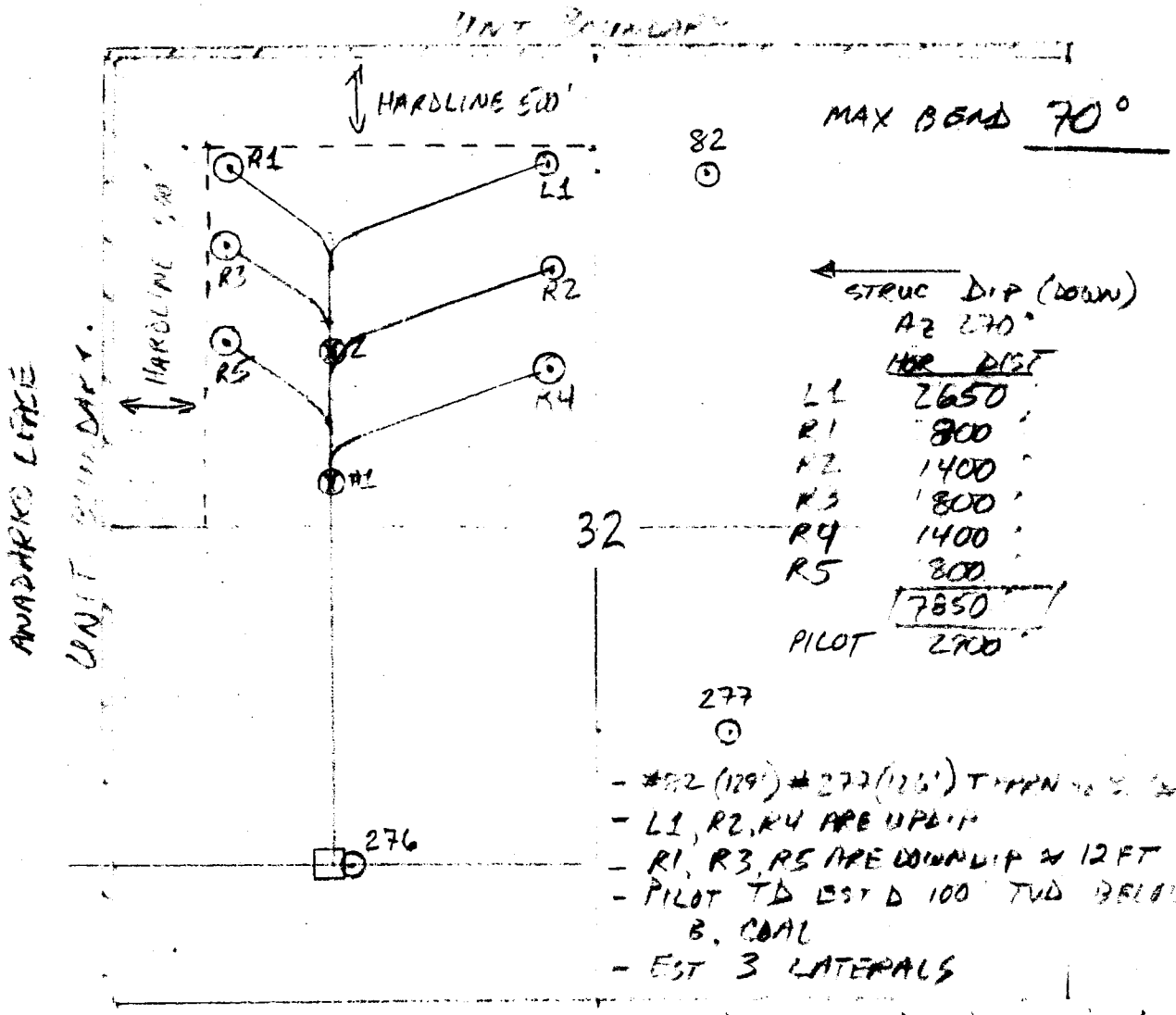
By:
(ATTORNEY-IN-FACT) FRANK A. WORD, JR.

S-0443/GEEF 10/99

617 HML R[illegible] HOR. MULT-LATERAL [illegible] A. CLOUD 4/7/03

SURF LOC #2 [illegible] PAD 750 FSL 1200 FWL 32-15S-9E GL 6234'
PILOT BHL ≈1700 FNL 1200 FWL 32-15S-9E

SUBSEA	TARGET #	NAME	32-15S-9E		FROM SURF LOC X	Y	TVD	
+3342	1 PILOT	T. FRRN	2400 FNL	1200 FWL	0'	2150' N	2892' T. FRRN	
	2 PILOT	TD	≈1700 FNL	1200 FWL	0'	2900' N	~3122' *	
+3370	3 LATERAL	L1			1200' E	3900' N	2864' +	**
+3330	4 RADIAL 1	L1R1			550' W	3900' N	2904' +	—
+3375	5 RADIAL 2	L1R2			1200' E	3300' N	2859' +	—
+3330	6 RADIAL 3	L1R3			550' W	3500' N	2904' +	—
+3375	7 RADIAL 4	L1R4			1200' E	[illegible] N	2859' +	—
+3330	8 RADIAL 5	L1R5			550' W	2900' N	2904' +	—



** T. FRRN TO SEAM #1 (9' COAL), SEAM #2 (8' COAL), SEAM #3 (9' COAL)
40' "5" 80' "4" 115' "C"

"G" COAL THINS FROM WEST TO EAST & MAY NOT BE PROSPECTIVE
"5" & "4" COAL ARE CONSISTANT THICKNESS

003

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 05/21/2003

API NO. ASSIGNED: 43-007-30922

WELL NAME: UTAH 32-617D

OPERATOR: CONOCOPHILLIPS COMPANY (N2335)

CONTACT: JEAN SEMBORSKI

PHONE NUMBER: 435-613-9777

PROPOSED LOCATION:

SWSW 32 150S 090E

SURFACE: 0788 FSL 0957 FWL

NW/4 BOTTOM: 1320 FNL 1320 FWL

CARBON

DRUNKARDS WASH (48)

LEASE TYPE: 3 - State

LEASE NUMBER: ML-43209

SURFACE OWNER: 3 - State

PROPOSED FORMATION: FRSD

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	7/2/03
Geology		
Surface		

LATITUDE: 39.47187

LONGITUDE: 110.94309

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[3] Fee[]
(No. 5952189)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. MUNICIPAL)

N RDCC Review (Y/N)
(Date:)

NA Fee Surf Agreement (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit DRUNKARDS WASH ✓

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

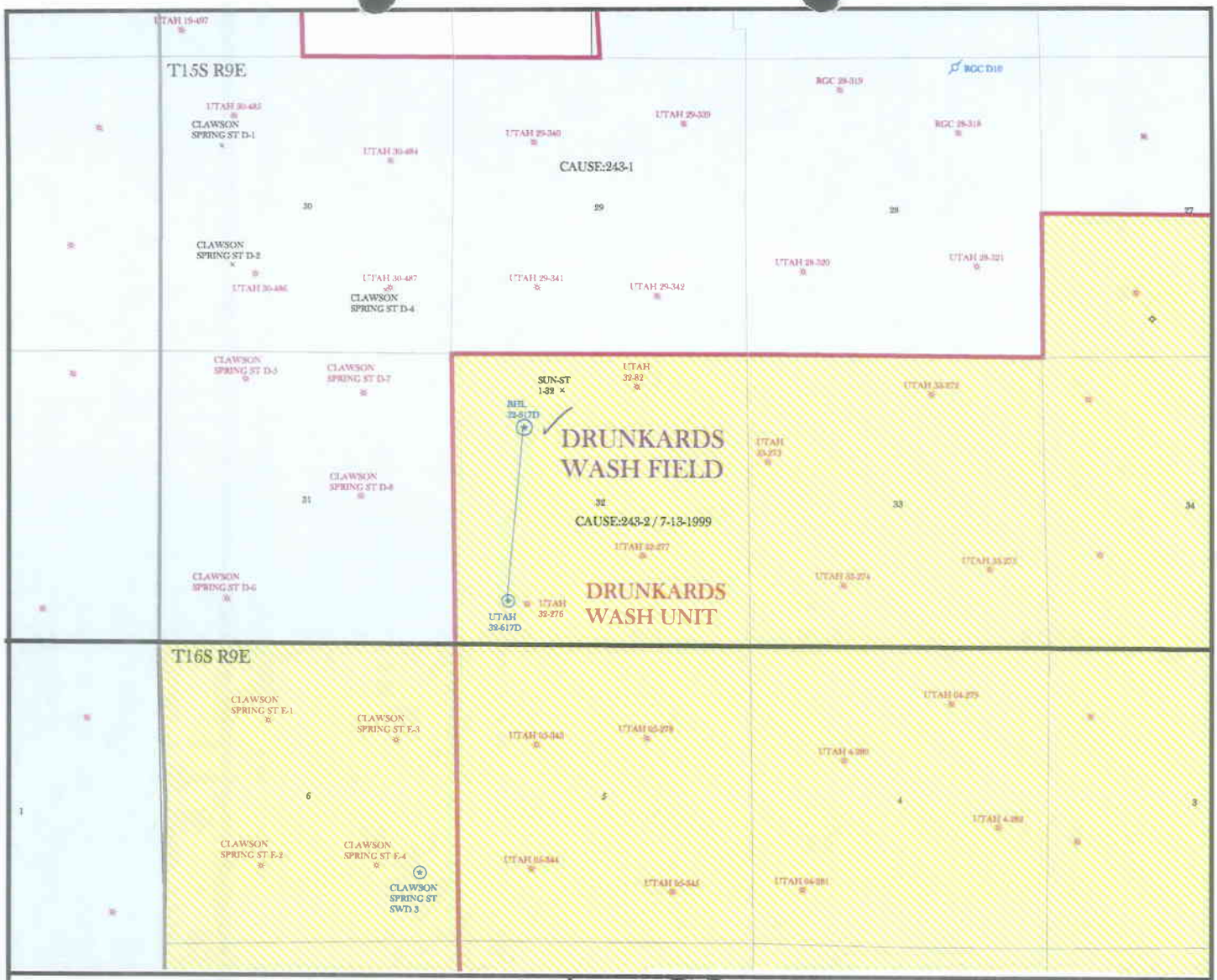
___ R649-3-3. Exception

✓ Drilling Unit
Board Cause No: 243-2
Eff Date: 7-13-1999
Siting: 4 Hed'fr U boundary & uncomm. tract

✓ R649-3-11. Directional Drill

COMMENTS: Needs Presite (Rec'd 4/7/03)

STIPULATIONS: (1) Surface Casing Cement Step
(2) STATEMENT OF BASIS



OPERATOR: CONOCOPHILLIPS (N2335)

SEC. 32 T15S, R9E

FIELD: DRUNKARDS WASH (48)

COUNTY: CARBON

CAUSE: 243-2 / 7-13-1999

Utah Oil Gas and Mining

WELLS
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL

UNIT STATUS
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

FIELD STATUS
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED
- COUNTY BOUNDARY
- SECTION LINES
- TOWNSHIP LINES

N
W E
S

PREPARED BY: DIANA MASON
DATE: 22-MAY-2003

DIVISION OF OIL, GAS AND MINING
APPLICATION FOR PERMIT TO DRILL
STATEMENT OF BASIS

OPERATOR: Phillips
WELL NAME & NUMBER: Utah 32-617D
API NUMBER: 43-007-30895
LOCATION: 1/4,1/4 SWSW Sec: 32 TWP: 15S RNG: 9E 788 FSL 957 FWL

Geology/Ground Water:

There are no aquifers with high quality ground water likely to be encountered. Four stockwatering water rights have been filed along Washboard Wash within a mile of the location. The location is set on Quarternary / Tertiary Pediment Mantle deposited on the canyon floor. A moderately-permeable soil is developed on the Pediment Mantle. Garley Canyon Ss. Beds of the Blue Gate Shale Member of the Mancos Shale may be present at this location. If the Garley Canyon Beds are present (probable) and wet (possible - standing water was found in upper Garley Canyon Beds in Pinnacle Canyon ~7.5 miles north), both beds should be included within the surface casing string. The operator is informed of the potential for wet Garley Canyon Beds and will respond to protect the zone by extending the surface casing string as needed to protect the beds with the surface string. The proposed casing and cement program, if extended as needed, will adequately isolate any zones of water penetrated and protect both Garley Canyon Beds.

Reviewer: Christopher J. Kierst **Date:** 5/29/03

Surface:
Proposed location is ~10 miles Southwest of Price, Utah and ~10 miles NW of Huntington, Utah. The direct area drains to the southeast into Washboard Wash, a typically dry wash that drains a very large amount of acreage and has the potential of packing large amounts of water. Washboard Wash eventually dumps into the Price River, a year-round live water source ~20 miles east of the proposed location. Dry washes run throughout the area. This well will be a directionally drilled well due to topography and raptor issues. SITLA and Carbon County were invited to the on-site meeting however chose not to attend.

Reviewer: Mark L. Jones **Date:** April 14, 2003

Conditions of Approval/Application for Permit to Drill:

1. Culverts sufficient to handle run-off as needed where crossing drainages.
2. Berm the location and pit.
3. Divert all existing drainages around the location.
4. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION
Division of Oil, Gas and Mining

OPERATOR: ConocoPhillips
WELL NAME & NUMBER: Utah 32-617D
API NUMBER: 43-007-30895
LEASE: State **FIELD/UNIT:**
LOCATION: 1/4,1/4 SWSW **Sec:** 32 **TWP:** 15S **RNG:** 9E 788 FSL 957 FWL
LEGAL WELL SITING: 460 ' from unit boundary and uncommitted tracts.
GPS COORD (UTM): X = 504902 E; Y = 4368933 N **SURFACE OWNER:** SITLA

Directional hole; BH Data = NW/4 32 16S 9E.

PARTICIPANTS

M. Jones (DOGM), J. Semborski (Phillips), Larry Jensen (NELCO), and Tony Wright (DWR). SITLA and Carbon County was invited to the on-site meeting however chose not to attend.

REGIONAL/LOCAL SETTING & TOPOGRAPHY

Proposed location is ~10 miles Southwest of Price, Utah and ~10 miles NW of Huntington, Utah. The direct area drains to the southeast into Washboard Wash, a typically dry wash that drains a very large amount of acreage and has the potential of packing large amounts of water. Washboard Wash eventually dumps into the Price River, a year-round live water source ~20 miles east of the proposed location. Dry washes run throughout the area. This well will be a directionally drilled well due to topography and raptor issues.

SURFACE USE PLAN

CURRENT SURFACE USE: Wildlife habitat and grazing.

PROPOSED SURFACE DISTURBANCE: 200' x 300' and a 100' x 10' x 6' pit.

LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: 14 producing gas wells are within a 1 mile radius of the above proposed well.

LOCATION OF PRODUCTION FACILITIES AND PIPELINES: Along roadside.

SOURCE OF CONSTRUCTION MATERIAL: Obtained locally and transported in.

ANCILLARY FACILITIES: None anticipated.

WASTE MANAGEMENT PLAN:

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Crude oil production is unlikely. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via a salt water disposal well. Used oil from drilling operations and support is hauled to a used oil recycler and reused.

ENVIRONMENTAL PARAMETERS

AFFECTED FLOODPLAINS AND/OR WETLANDS: Dry washes.

FLORA/FAUNA: 4-Winged Salt Bush, greasewood, grasses, Elk, deer, small game, rodents.

SOIL TYPE AND CHARACTERISTICS: Silty clay loam.

EROSION/SEDIMENTATION/STABILITY: Stable until disturbed.

PALEONTOLOGICAL POTENTIAL: None observed.

RESERVE PIT

CHARACTERISTICS: Dugout earthen pit, looking at possibly using metal pits.

LINER REQUIREMENTS (Site Ranking Form attached): Liner required, if using dugout earthen pit.

SURFACE RESTORATION/RECLAMATION PLAN

As per surface use agreement.

SURFACE AGREEMENT: As per SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: Arch study completed and placed on file with SITLA. Copy will be sent to DOGM.

OTHER OBSERVATIONS/COMMENTS

Location will be a directionally drilled hole to the due to topography, archeology and raptor concerns. Location has been staked adjacent to the Utah 32-276 well in order to reduce the size needed to drill the directional hole by utilizing the existing producing well pad. This will also facilitate the dual usage of the access road and well gathering lines and utilities.

ATTACHMENTS

Photos of this location were taken and placed on file.

Mark L. Jones	April 7, 2003 / 12:00 pm
DOGM REPRESENTATIVE	DATE/TIME

Evaluation Ranking Criteria and Ranking Score
For Reserve and Onsite Pit Liner Requirements

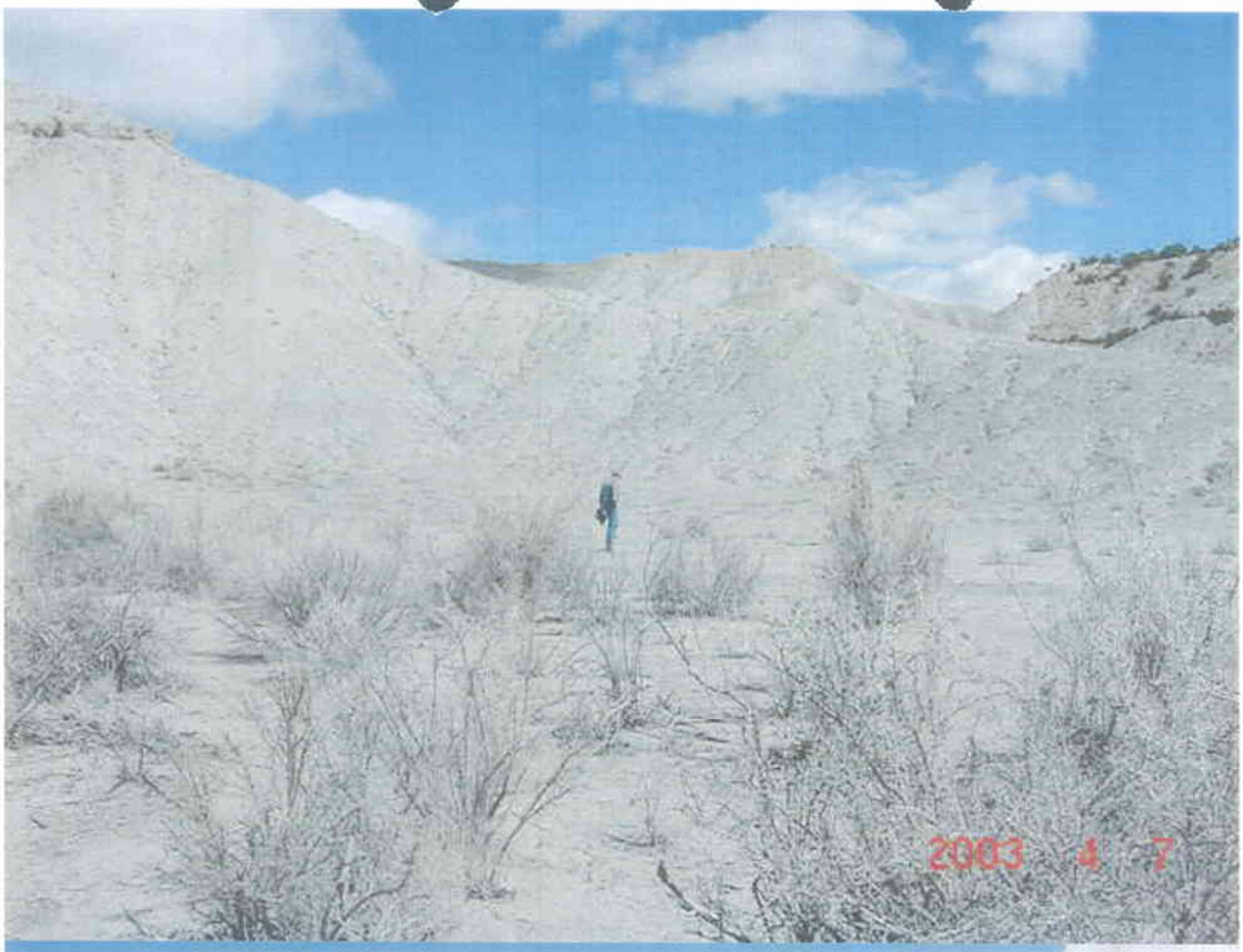
Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	0
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	0
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	0
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	10
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	10
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents	15 20	10
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	0
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	0
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	0
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	0

Final Score 30 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level II = 15-19; lining is discretionary.
Sensitivity Level III = below 15; no specific lining is required.

2003 4 7

2003 4 7

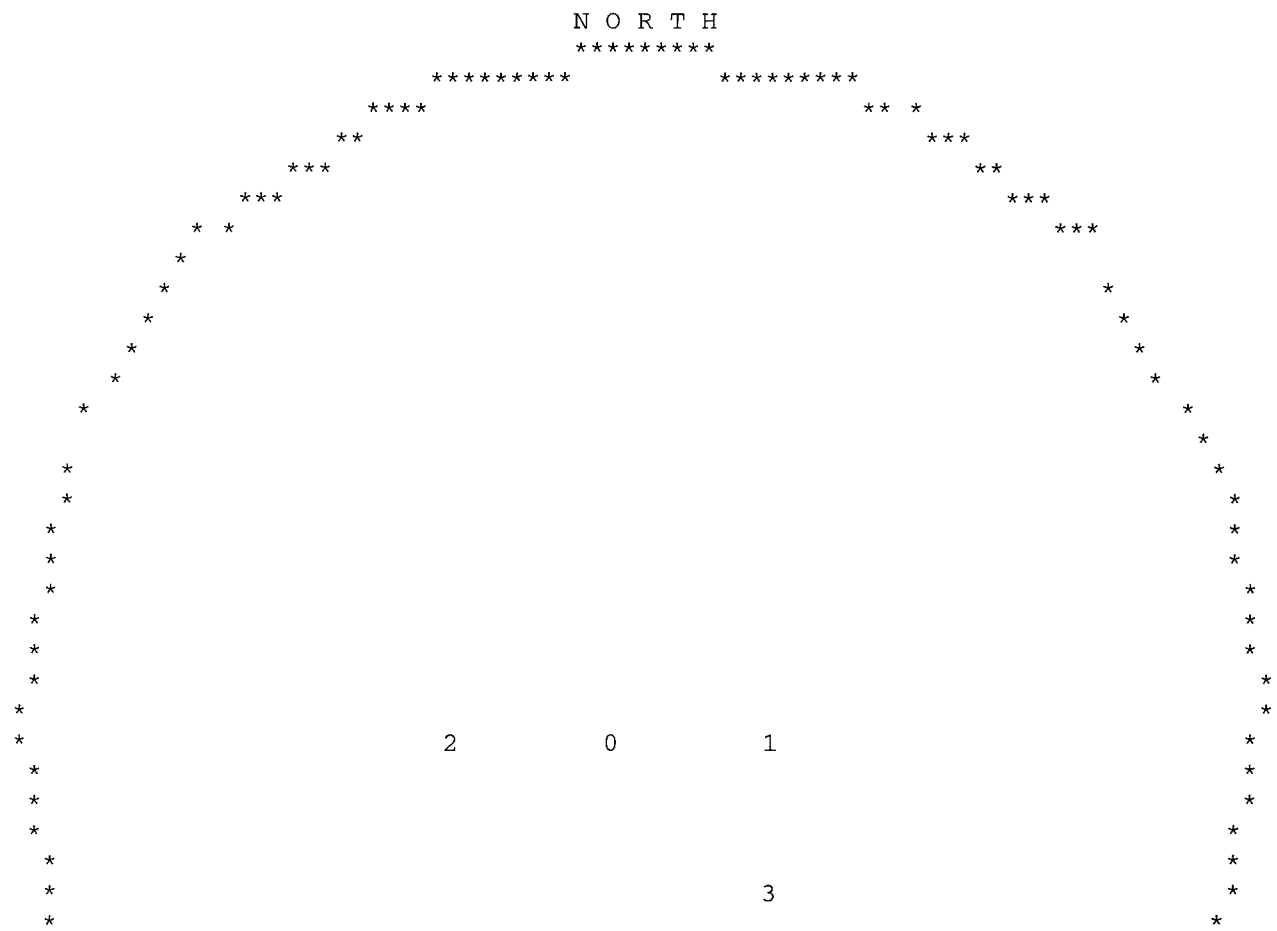

2003 4 7

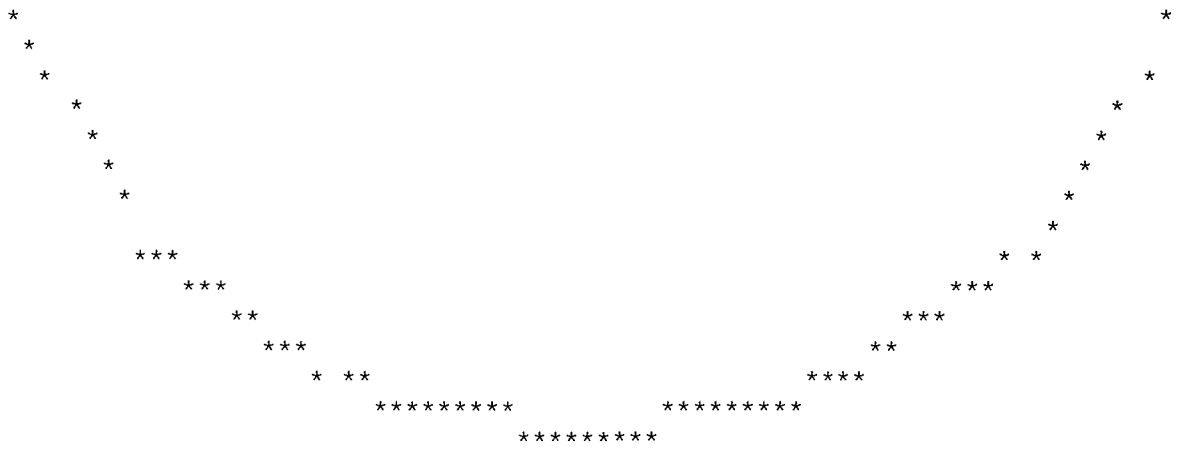
2003 4 7

UTAH DIVISION OF WATER RIGHTS
WATER RIGHT POINT OF DIVERSION PLOT CREATED FRI, MAY 30, 2003, 9:59 AM
PLOT SHOWS LOCATION OF 4 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT
N 788 FEET, E 957 FEET OF THE SW CORNER,
SECTION 32 TOWNSHIP 15S RANGE 9E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS	AND/OR AC-FT	SOURCE DESCRIPTION or WELL INFO DIAMETER	DEPTH	YEAR LOG	POINT OF DIVERSION DESCRIPTION NORTH	EAST	CNR	SEC	TWN	RNG	B&M	UNN	APP
0	91 3164	.0000		.00 Washboard Wash											
	WATER USE(S): STOCKWATERING													PRIORITY DATE: 00/00/1869	
	State of Utah School & Institutional Tru 675 East 500 South, 5th Floor													Salt Lake City	UT 8
1	91 3164	.0000		.00 Washboard Wash											
	WATER USE(S): STOCKWATERING													PRIORITY DATE: 00/00/1869	
	State of Utah School & Institutional Tru 675 East 500 South, 5th Floor													Salt Lake City	UT 8
2	91 3764	.0000		.00 Washboard Wash											
	WATER USE(S): STOCKWATERING													PRIORITY DATE: 00/00/1869	
	State of Utah School & Institutional Tru 675 East 500 South, Suite 500													Salt Lake City	UT 8
3	91 3165	.0000		.00 Washboard Wash											
	WATER USE(S): STOCKWATERING													PRIORITY DATE: 00/00/1869	
	State of Utah School & Institutional Tru 675 East 500 South, Suite 500													Salt Lake City	UT 8

[redacted]05-03 ConocoPhillips Utah 3[redacted]617D

Casing Schematic

Surface Mancos

Surface

Surface Slip

TOC @ 58.

w/ 18% washout

11-3/4"
MW 8.4
Frac 19.3

14 3/4" hole size

Surface
500. MD
500. TVD

BHP

(0.052)(8.4)(3122 TVD) = 1364

Anticipated 1912 ?

Gas

(.12)(3122) = 375

MASP = 989

BOPE - 3M proposed w/ Rotating head

3M Adequate DKD 7/2/03

TOC @ 2244. MD

12.5#

w/ 15% washout

4286 MD
Ferron

TOC Tail

4383 MD

(298') 15.8#
100 sks 1.15
97 sks 1.55
(389') 14.2#
197 sks 1.35

4405 MD
Top Coal

L_3 4409 MD

L_2 4544 MD

4660 MD
Lowest Coal

L_1 4665 MD

w/ 15% washout
100 sks Class G TOC = 4772'
97 sks Thixo TOC = 4383'
430 sks 50/50 TOC = 2244'

7-5/8"
MW 8.4
9 7/8" hole size
not typical

Production
5070. MD
3122. TVD

4 3/4" Open hole Laterals per Todd Mushovic 6/17/03 DKD

Well name:	**05-03 ConocoPhillips Utah 32-617D**
Operator:	**Conoco-Phillips**
String type:	Surface
Location:	Carbon County
Project ID:	43-007-30922

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 0 psi
Internal gradient: 0.447 psi/ft
Calculated BHP 223 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 438 ft

Environment:

H2S considered? No
Surface temperature: 65 °F
Bottom hole temperature: 72 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 185 ft

Cement top: 58 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 3,101 ft
Next mud weight: 8.600 ppg
Next setting BHP: 1,386 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 650 ft
Injection pressure 650 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	500	11.75	42.00	H-40	ST&C	500	500	10.959	41.5

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	218	1040	4.768	223	1980	8.87	21	307	14.62 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: June 12,2003
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 500 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**05-03 ConocoPhillips Utah 32-617D**
Operator:	**Conoco-Phillips**
String type:	Production
Location:	Carbon County
Project ID:	43-007-30922

Design parameters:

Collapse

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: -32 psi
Internal gradient: 0.447 psi/ft
Calculated BHP 1,362 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on air weight.
Neutral point: 3,746 ft

Environment:

H2S considered?	No
Surface temperature:	65 °F
Bottom hole temperature:	109 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	368 ft
Cement top:	2,244 ft

Directional well information:

Kick-off point	1527 ft
Departure at shoe:	2900 ft
Maximum dogleg:	6 °/100ft
Inclination at shoe:	72.96 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	5070	7.625	26.40	J-55	ST&C	3122	5070	6.844	264.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1362	2890	2.121	1362	4140	3.04	82	315	3.82 J

Prepared by: Clinton Dworshak
Utah Div. of Oil & Mining

Date: June 12,2003
Salt Lake City, Utah

ENGINEERING STIPULATIONS: NONE
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.
Collapse is based on a vertical depth of 3122 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes.
Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ConocoPhillips Company Utah 32-617D Proposed BHL

REVISED 7/2/2003

	FSL	FWL
Surface Location	**788**	**957**

			BHL	
Main Wellbore				
	Northings	Eastings	FSL	FWL
Enter Zone	2267	0	3055	957
Leave Zone	2512	0	3300	957
Bottom Hole	2900	0	3688	957
Lateral 1				
Lat 1	3886	1127	4674	2084
Rad 1	3775	-344	4563	613
Rad 2	3401	1052	4189	2009
Rad 3	3412	-372	4200	585
Rad 4	2949	1194	3737	2151
Rad 5	3043	-399	3831	558
Lateral 2				
Lat 2	NA	NA	#VALUE!	#VALUE!
Rad 1	NA	NA	#VALUE!	#VALUE!
Rad 2	NA	NA	#VALUE!	#VALUE!
Rad 3	NA	NA	#VALUE!	#VALUE!
Rad 4	NA	NA	#VALUE!	#VALUE!
Rad 5	NA	NA	#VALUE!	#VALUE!
Lateral 3				
Lat 3	3872	1062	4660	2019
Rad 1	3740	-321	4528	636
Rad 2	3289	1139	4077	2096
Rad 3	3307	-382	4095	575
Rad 4	2693	1126	3481	2083
Rad 5	2804	-351	3592	606

OK. DRD
7/2/03

Prepared by: Dustin Doucet 7/02/2003

ConocoPhillips Company Utah 32-617D Proposed BHL

ORIGINAL (see revision 7/02/2003)

	FSL	FWL
Surface Location	**788**	**957**

Main Wellbore	Northings	Eastings	BHL FSL	BHL FWL
Enter Zone	2267	0	3055	957
Leave Zone	2513	0	3301	957
Bottom Hole	2900	0	3688	957
Lateral 1				
Lat 1	3900	1200	4688	2157
Rad 1	3900	-550	4688	407
Rad 2	3426	1200	4214	2157
Rad 3	3500	-550	4288	407
Rad 4	2950	1200	3738	2157
Rad 5	3100	-550	3888	407
Lateral 2				
Lat 2	3900	1200	4688	2157
Rad 1	3900	-550	4688	407
Rad 2	3350	1200	4138	2157
Rad 3	3400	-550	4188	407
Rad 4	2800	1200	3588	2157
Rad 5	2900	-550	3688	407
Lateral 3				
Lat 3	3900	1200	4688	2157
Rad 1	3900	-550	4688	407
Rad 2	3300	1200	4088	2157
Rad 3	3500	-550	4288	407
Rad 4	2700	1200	3488	2157
Rad 5	2900	-550	3688	407

within 460' of Unit Boundary
inadequate DRD

Prepared by: Dustin Doucet 6/17/2003

FORM 9

STATE OF UTAH

DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.
Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.

5. Lease Designation and Serial Number: ML-43209

6. If Indian, Allottee or Tribe Name: N/A

7. Unit Agreement Name: Drunkards Wash UTU-67921X

1. Type of Well: OIL ☐ GAS ☒ OTHER:

8. Well Name and Number: Utah 32-617d

2. Name of Operator: ConocoPhillips Company

9. API Well Number:

3. Address and Telephone Number: 6825 S. 5300 W. P.O. Box 851 Price, Utah 84501 (435) 613-9777

10. Field or Pool, or Wildcat: Drunkards Wash

4. Location of Well
Footages: Surface: 788' FSL, 957' FWL, Sec. 32 BHL: NW/4, Sec. 32, T15S, R09E
QQ, Sec., T., R., M.: Surface SW/4 SW/4 Sec. 32, T15S, R09E Target: NW/4 Sec. 32, T15S, R09E SLB&M

County: Carbon County
State: Utah

11. **CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

NOTICE OF INTENT
(Submit in Duplicate)

- ☐ Abandon
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☐ Multiple Completion
- ☐ Other
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Recomplete
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Approximate date work will start

SUBSEQUENT REPORT
(Submit Original Form Only)

- ☐ Abandon *
- ☐ Repair Casing
- ☐ Change of Plans
- ☐ Convert to Injection
- ☐ Fracture Treat or Acidize
- ☒ Other Permit Exhibit Correction
- ☐ New Construction
- ☐ Pull or Alter Casing
- ☐ Reperforate
- ☐ Vent or Flare
- ☐ Water Shut-Off

Date of work completion

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION REPORT AND LOG form.

* Must be accompanied by a cement verification report.

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Please replace the APD page 1 of Exhibit "D" for the Utah 32-617d with the revised APD page dated 6/4/03.

COPY

CONFIDENTIAL

13.

Name & Signature: Jean Semborski Title: Permitting Supervisor Date: 6/4/03

(This space for state use only)

RECEIVED
JUN 10 2003
DIV. OF OIL, GAS & MINING

(4/94)

(See Instructions on Reverse Side)

EXHIBIT "D"
DRILLING PROGRAM

Revised 6/4/03

Attached to Form 3
ConocoPhillips Company
Utah 32-617d
Surface : SW/4, SW/4, Sec.32, T15S, R09E, SLB & M
788' FSL, 957' FWL
Target: NW/4, Sec. 32, T15S, R09E, SLB&M
Carbon County, Utah

1. The Surface Geologic Formation

Mancos Shale

2. Estimated Tops of Important Geologic Markers

Top Ferron: 2892' TVD (4286' MD)
TD: 3122' TVD (5070' MD)

3. Projected Gas & H2O zones (Ferron Formation)

Coals and sandstones — Top Coal: 2927' TVD (4405' MD)
Lower Coal: 3002' TVD (4660' MD)

No groundwater is expected to be encountered.

Casing & cementing will be done to protect potentially productive hydrocarbons, lost circulation zones, abnormal pressure zones, and prospectively valuable mineral deposits. All indications of usable water will be reported.

Surface casing will be tested to 1400 psi.

4. The Proposed Casing and Cementing Programs

HOLE SIZE	SETTING DEPTH (INTERVAL)	SIZE (OD)	WEIGHT,GRADE & JOINT	NEW, USED
20"	40'	16"	Conductor	New
14 3/4"	500'	11 3/4"	42#H-40	New
9 7/8"	5070'MD	7 5/8"	26.4#J-55	New

Laterals/Radials 4 3/4" Hole per Todd Mushanec 6/17/03
DKD

From: "Jean M Semborski" <Jean.Semborski@conocophillips.com>
To: <CLINTONDWORSHAK@utah.gov>
Date: 7/2/03 7:58AM
Subject: #617 HML Revised Target Locations

Clint,

Hope this works. Sorry about the delay. Let me know if you need anything else.

Jean Semborski
Permitting Supervisor
ConocoPhillips Company
P.O. Box 851
Price, Utah 84501
Phone: 435/613-9777
Fax: 435/613-9782
Cell: 435/820-9807
E-mail: Jean.Semborski@ConocoPhillips.com
----- Forwarded by Jean M Semborski/PPCO on 07/02/2003 07:57 AM -----

Tom A Cloud/TACLOUD/Exchange@Exchange
06/30/2003 02:12 PM

To: Frankie L Hathaway/PPCO@Phillips, Jean M Semborski/PPCO@Phillips, Todd J Mushovic/TMUSHOV/Exchange@Exchange
cc: Jennifer B. Ballou/BalloJB/Exchange@Exchange, Erik A. Kneller/KNELLEA/Exchange@Exchange, Benjamin L. Sargent/SargeBL/Exchange@Exchange
Subject: #617 HML Revised Target Locations

Attached are the revised target locations due to the surveyed versus estimated surface location (approx. 250 ft difference). It is Price's decision if a Sundry Notice is needed or if we provide final surveyed target locations after we drill the well. These targets honor the 467 ft Unit Boundary limit and the 1000 ft "nearest well" minimum.

Regards,
Tom

Thomas A. Cloud
Tel: 832-486-2377
FAX: 832-486-2296
Email: tom.a.cloud@conocophillips.com

ConocoPhillips Co.
3WL-5100
PO Box 2197
Houston, TX 77252

For Fed Ex.: 600 North Dairy Ashford
Houston, TX 77079

617 Final Well Path

Name	X(ft)	Y(ft)	Depth(ft)	From surface E-W(ft)	From surface N(ft)	From surface TVD
Pilot	1656496.06	14333736.88	6231.00	0.06	-0.12	0.00
Pilot	1656496.06	14333736.88	6200.00	0.06	-0.12	31.00
Pilot	1656496.06	14333736.88	6100.00	0.06	-0.12	131.00
Pilot	1656496.06	14333736.88	6000.00	0.06	-0.12	231.00
Pilot	1656496.06	14333736.88	5900.00	0.06	-0.12	331.00
Pilot	1656496.06	14333736.88	5800.00	0.06	-0.12	431.00
Pilot	1656496.06	14333736.88	5700.00	0.06	-0.12	531.00
Pilot	1656496.06	14333736.88	5600.00	0.06	-0.12	631.00
Pilot	1656496.06	14333736.88	5500.00	0.06	-0.12	731.00
Pilot	1656496.06	14333736.88	5400.00	0.06	-0.12	831.00
Pilot	1656496.06	14333736.88	5300.00	0.06	-0.12	931.00
Pilot	1656496.06	14333736.88	5200.00	0.06	-0.12	1031.00
Pilot	1656496.06	14333736.88	5100.00	0.06	-0.12	1131.00
Pilot	1656496.06	14333736.88	5000.00	0.06	-0.12	1231.00
Pilot	1656496.06	14333736.88	4900.00	0.06	-0.12	1331.00
Pilot	1656496.06	14333736.88	4800.00	0.06	-0.12	1431.00
Pilot	1656496.06	14333736.88	4704.06	0.06	-0.12	1526.94
Pilot	1656496.06	14333742.11	4604.24	0.06	5.11	1626.76
Pilot	1656496.06	14333757.75	4505.52	0.06	20.75	1725.48
Pilot	1656496.06	14333783.62	4408.97	0.06	46.62	1822.03
Pilot	1656496.06	14333819.43	4315.65	0.06	82.43	1915.35
Pilot	1656496.06	14333864.81	4226.59	0.06	127.81	2004.41
Pilot	1656496.06	14333919.25	4142.77	0.06	182.25	2088.23
Pilot	1656496.06	14333982.15	4065.09	0.06	245.15	2165.91
Pilot	1656496.06	14334052.82	3994.41	0.06	315.82	2236.59
Pilot	1656496.06	14334100.71	3954.05	0.06	363.71	2276.95
Pilot	1656496.06	14334130.50	3931.51	0.06	393.50	2299.49
Pilot	1656496.06	14334214.31	3877.07	0.06	477.31	2353.93
Pilot	1656496.06	14334303.37	3831.69	0.06	566.37	2399.31
Pilot	1656496.06	14334396.68	3795.87	0.06	659.68	2435.13
Pilot	1656496.06	14334411.87	3791.07	0.06	674.87	2439.93
Pilot	1656496.06	14334411.94	3791.05	0.06	674.94	2439.95
Pilot	1656496.06	14334507.55	3761.74	0.06	770.55	2469.26
Pilot	1656496.06	14334603.15	3732.43	0.06	866.15	2498.57
Pilot	1656496.06	14334698.75	3703.12	0.06	961.75	2527.88
Pilot	1656496.06	14334794.35	3673.81	0.06	1057.35	2557.19
Pilot	1656496.06	14334889.96	3644.50	0.06	1152.96	2586.50
Pilot	1656496.06	14334985.56	3615.19	0.06	1248.56	2615.81
Pilot	1656496.06	14335081.17	3585.89	0.06	1344.17	2645.11
Pilot	1656496.06	14335176.77	3556.58	0.06	1439.77	2674.42
Pilot	1656496.06	14335272.38	3527.27	0.06	1535.38	2703.73
Pilot	1656496.06	14335367.99	3497.97	0.06	1630.99	2733.03
Pilot	1656496.06	14335463.59	3468.66	0.06	1726.59	2762.34
Pilot	1656496.06	14335559.20	3439.36	0.06	1822.20	2791.64
Pilot	1656496.06	14335654.80	3410.06	0.06	1917.80	2820.94
Pilot	1656496.06	14335750.41	3380.75	0.06	2013.41	2850.25
Pilot	1656496.06	14335794.96	3367.10	0.06	2057.96	2863.90
Pilot	1656496.06	14335846.01	3351.45	0.06	2109.01	2879.55
Pilot	1656496.06	14335941.62	3322.15	0.06	2204.62	2908.85

Pilot	1656496.06	14336004.64	3302.84	0.06	2267.64	2928.16
Pilot	1656496.06	14336037.22	3292.85	0.06	2300.22	2938.15
Pilot	1656496.06	14336132.83	3263.55	0.06	2395.83	2967.45
Pilot	1656496.06	14336133.38	3263.38	0.06	2396.38	2967.62
Pilot	1656496.06	14336142.45	3260.60	0.06	2405.45	2970.40
Pilot	1656496.06	14336228.44	3234.25	0.06	2491.44	2996.75
Pilot	1656496.06	14336249.22	3227.88	0.06	2512.22	3003.12
Pilot	1656496.06	14336258.29	3225.10	0.06	2521.29	3005.90
Pilot	1656496.06	14336324.04	3204.95	0.06	2587.04	3026.05
Pilot	1656496.06	14336419.66	3175.65	0.06	2682.66	3055.35
Pilot	1656496.06	14336515.26	3146.35	0.06	2778.26	3084.65
Pilot	1656496.06	14336610.87	3117.06	0.06	2873.87	3113.94
Pilot	1656496.06	14336637.16	3109.00	0.06	2900.16	3122.00 TD
L-1	1656496.12	14336179.91	3250.30	0.12	2442.91	2980.70
L-1	1656496.12	14336239.26	3242.15	0.12	2502.26	2988.85
L-1	1656496.12	14336404.55	3243.89	0.12	2667.55	2987.11
L-1	1656496.12	14336502.47	3244.27	0.12	2765.47	2986.73
L-1	1656496.12	14336598.84	3244.76	0.12	2861.84	2986.24
L-1	1656496.12	14336706.19	3244.71	0.12	2969.19	2986.29
L-1	1656496.12	14336796.68	3244.57	0.12	3059.68	2986.43
L-1	1656496.12	14337055.11	3244.21	0.12	3318.11	2986.79
L-1	1656495.39	14337198.27	3244.13	-0.61	3461.27	2986.87
L-1	1656496.12	14337286.12	3244.29	0.12	3549.12	2986.71
L-1	1656549.01	14337360.24	3243.57	53.01	3623.24	2987.43
L-1	1656595.89	14337407.20	3243.71	99.89	3670.20	2987.29
L-1	1656649.32	14337424.60	3243.93	153.32	3687.60	2987.07
L-1	1656746.20	14337444.29	3245.02	250.20	3707.29	2985.98
L-1	1656844.78	14337464.33	3245.21	348.78	3727.33	2985.79
L-1	1657036.71	14337503.34	3247.31	540.71	3766.34	2983.69
L-1	1657139.18	14337524.17	3248.42	643.18	3787.17	2982.58
L-1	1657236.29	14337543.91	3249.48	740.29	3806.91	2981.52
L-1	1657329.93	14337562.94	3250.95	833.93	3825.94	2980.05
L-1	1657403.78	14337577.95	3252.08	907.78	3840.95	2978.92
L-1	1657500.14	14337597.54	3252.67	1004.14	3860.54	2978.33
L-1	1657623.43	14337622.60	3254.57	1127.43	3885.60	2976.43 Target
R-1(L-1)	1656464.04	14337285.15	3242.66	-31.96	3548.15	2988.34
R-1(L-1)	1656401.31	14337351.80	3241.93	-94.69	3614.80	2989.07
R-1(L-1)	1656321.45	14337409.58	3239.85	-174.55	3672.58	2991.15
R-1(L-1)	1656152.27	14337512.36	3237.22	-343.73	3775.36	2993.78 Target
R-2(L-1)	1656497.21	14336800.35	3244.34	1.21	3063.35	2986.66
R-2(L-1)	1656524.54	14336902.54	3244.93	28.54	3165.54	2986.07
R-2(L-1)	1656531.17	14336927.34	3244.95	35.17	3190.34	2986.05
R-2(L-1)	1656564.00	14336968.94	3245.76	68.00	3231.94	2985.24
R-2(L-1)	1656655.22	14336984.60	3247.19	159.22	3247.60	2983.81
R-2(L-1)	1656750.81	14337001.02	3248.24	254.81	3264.02	2982.76
R-2(L-1)	1656849.44	14337017.95	3249.13	353.44	3280.95	2981.87
R-2(L-1)	1656946.72	14337034.66	3249.82	450.72	3297.66	2981.18
R-2(L-1)	1657046.65	14337051.81	3251.83	550.65	3314.81	2979.17

R-2(L-1)	1657147.34	14337069.11	3253.17	651.34	3332.11	2977.83
R-2(L-1)	1657242.20	14337085.39	3254.61	746.20	3348.39	2976.39
R-2(L-1)	1657356.25	14337104.98	3255.88	860.25	3367.98	2975.12
R-2(L-1)	1657547.76	14337137.87	3258.98	1051.78	3400.87	2972.02 Target
R-3(L-1)	1656494.69	14336851.57	3244.13	-1.31	3114.57	2986.87
R-3(L-1)	1656470.66	14336941.42	3243.91	-25.34	3204.42	2987.09
R-3(L-1)	1656403.28	14337009.14	3242.95	-92.72	3272.14	2988.05
R-3(L-1)	1656297.84	14337063.08	3241.17	-198.16	3326.08	2989.83
R-3(L-1)	1656123.62	14337149.38	3238.24	-372.38	3412.38	2992.76 Target
R-4(L-1)	1656496.12	14336394.72	3243.79	0.12	2657.72	2987.21
R-4(L-1)	1656518.62	14336480.40	3244.84	22.62	2743.40	2986.16
R-4(L-1)	1656586.78	14336560.15	3247.38	90.78	2823.15	2983.62
R-4(L-1)	1656666.55	14336585.81	3249.22	170.55	2848.81	2981.78
R-4(L-1)	1656762.91	14336595.63	3250.79	266.91	2858.63	2980.21
R-4(L-1)	1656862.36	14336605.38	3252.28	366.36	2868.38	2978.72
R-4(L-1)	1657065.21	14336625.27	3254.94	569.21	2888.27	2976.06
R-4(L-1)	1657173.18	14336635.86	3256.87	677.18	2898.86	2974.13
R-4(L-1)	1657274.83	14336645.83	3258.41	778.83	2908.83	2972.59
R-4(L-1)	1657383.39	14336656.47	3259.82	887.39	2919.47	2971.18
R-4(L-1)	1657490.20	14336666.95	3261.23	994.20	2929.95	2969.77
R-4(L-1)	1657582.01	14336675.95	3261.93	1086.01	2938.95	2969.07
R-4(L-1)	1657689.51	14336686.49	3263.72	1193.51	2949.49	2967.28 Target
R-5(L-1)	1656493.48	14336506.09	3244.07	-2.52	2769.09	2986.93
R-5(L-1)	1656467.29	14336595.02	3245.13	-28.71	2858.02	2985.87
R-5(L-1)	1656402.19	14336660.23	3244.94	-93.81	2923.23	2986.06
R-5(L-1)	1656370.14	14336675.94	3244.84	-125.86	2938.94	2986.16
R-5(L-1)	1656277.72	14336711.12	3242.89	-218.28	2974.12	2988.11
R-5(L-1)	1656096.61	14336780.05	3240.00	-399.39	3043.05	2991.00 Target
L3	1656496.12	14335960.89	3320.45	0.12	2223.89	2910.55
L3	1656496.12	14336049.36	3314.06	0.12	2312.36	2916.94
L3	1656496.12	14336357.28	3316.51	0.12	2620.28	2914.49
L3	1656496.12	14336467.34	3317.41	0.12	2730.34	2913.59
L3	1656496.12	14336663.90	3316.81	0.12	2926.90	2914.19
L3	1656496.12	14337076.04	3314.60	0.12	3339.04	2916.40
L3	1656496.12	14337226.25	3312.71	0.12	3489.25	2918.29
L3	1656528.44	14337339.62	3312.37	32.44	3602.62	2918.63
L3	1656592.96	14337404.27	3311.16	96.96	3667.27	2919.84
L3	1656659.91	14337426.76	3310.68	163.91	3689.76	2920.32
L3	1656781.70	14337451.51	3312.15	285.70	3714.51	2918.85
L3	1657054.24	14337506.89	3315.62	558.24	3769.89	2915.38
L3	1657241.33	14337544.91	3317.73	745.33	3807.91	2913.27
L3	1657349.94	14337566.99	3318.70	853.94	3829.99	2912.30
L3	1657446.78	14337586.66	3319.73	950.78	3849.66	2911.27
L3	1657557.55	14337609.18	3321.29	1061.55	3872.16	2909.71 Target
R-1(L3)	1656493.47	14337161.53	3312.53	-2.53	3424.53	2918.47
R-1(L3)	1656469.94	14337249.53	3312.38	-26.06	3512.53	2918.62
R-1(L3)	1656409.13	14337312.10	3309.48	-86.87	3575.10	2921.52

R-1(L3)	1656255.83	14337419.78	3306.36	-240.17	3682.78	2924.64
R-1(L3)	1656174.98	14337475.57	3305.44	-321.02	3739.57	2925.56 Target
R-2(L3)	1656496.12	14336650.55	3316.85	0.12	2913.55	2914.15
R-2(L3)	1656520.38	14336742.41	3317.73	24.38	3005.41	2913.27
R-2(L3)	1656588.51	14336814.15	3318.95	92.51	3077.15	2912.05
R-2(L3)	1656652.43	14336839.53	3319.78	156.43	3102.53	2911.22
R-2(L3)	1656742.64	14336856.62	3320.44	246.64	3119.62	2910.56
R-2(L3)	1656907.45	14336887.85	3322.88	411.45	3150.85	2908.12
R-2(L3)	1657098.23	14336924.00	3325.58	602.23	3187.00	2905.42
R-2(L3)	1657291.52	14336960.63	3327.99	795.52	3223.63	2903.01
R-2(L3)	1657402.58	14336981.68	3329.14	906.58	3244.68	2901.86
R-2(L3)	1657510.75	14337002.17	3330.84	1014.75	3265.17	2900.16
R-2(L3)	1657557.64	14337011.06	3330.95	1061.64	3274.06	2900.05
R-2(L3)	1657635.38	14337025.79	3332.20	1139.38	3288.79	2898.80 Target
R-3(L3)	1656492.10	14336866.66	3315.26	-3.90	3129.66	2915.74
R-3(L3)	1656470.14	14336948.78	3314.67	-25.86	3211.78	2916.33
R-3(L3)	1656400.61	14337017.73	3313.71	-95.39	3280.73	2917.29
R-3(L3)	1656255.58	14337087.80	3310.28	-240.42	3350.80	2920.72
R-3(L3)	1656113.65	14337156.38	3307.32	-382.35	3419.38	2923.68 Target
R-4(L3)	1656587.26	14336303.68	3318.03	91.26	2566.68	2912.97
R-4(L3)	1656718.45	14336346.41	3320.35	222.45	2609.41	2910.65
R-4(L3)	1656850.80	14336358.72	3323.71	354.80	2621.72	2907.29
R-4(L3)	1656982.63	14336370.98	3325.20	486.63	2633.98	2905.80
R-4(L3)	1657092.91	14336381.23	3327.41	596.91	2644.23	2903.59
R-4(L3)	1657255.53	14336396.35	3330.96	759.53	2659.35	2900.04
R-4(L3)	1657417.88	14336411.45	3332.82	921.88	2674.45	2898.18
R-4(L3)	1657621.96	14336430.43	3335.36	1125.96	2693.43	2895.64 Target
R-5(L3)	1656493.00	14336263.30	3315.64	-3.00	2526.30	2915.36
R-5(L3)	1656471.13	14336345.05	3317.36	-24.87	2608.05	2913.64
R-5(L3)	1656398.96	14336418.51	3316.04	-97.04	2681.51	2914.96
R-5(L3)	1656297.36	14336467.61	3314.21	-198.64	2730.61	2916.79
R-5(L3)	1656145.41	14336541.04	3311.28	-350.59	2804.04	2919.72 Target

Initial Point

X(ft)	Y(ft)	Z(elev.)
1656496.00	14333737.00	6231.00

From: Ed Bonner
To: Hunt, Gil
Date: 7/5/2003 5:57PM
Subject: Re: APD

This location (32-617d) is good to go. Sorry about the delay.

CC: Hill, Brad; Mason, Diana

004

State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt
Governor
Kathleen Clarke
Executive Director
Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210
PO Box 145801
Salt Lake City, Utah 84114-5801
801-538-5340
801-359-3940 (Fax)
801-538-7223 (TDD)

July 7, 2003

ConocoPhillips Company
P O Box 851
Price, UT 84501

Re: Utah 32-617D Well, 788' FSL, 957' FWL, SW SW, Sec. 32, T. 15 South, R. 9 East, Bottom Location 1320' FNL, 1320' FWL, NW/4, Sec. 32, T. 15 South, R. 9 East, Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-30922.

Sincerely,

John R. Baza
Associate Director

pab
Enclosures

cc: Carbon County Assessor
SITLA
Bureau of Land Management, Moab District Office

Operator:	ConocoPhillips Company
Well Name & Number	Utah 32-617D
API Number:	43-007-30922
Lease:	ML-43209

Location:	SW SW	**Sec.** 32	**T.** 15 South	**R.** 9 East
Bottom Location:	NW/4	**Sec.** 32	**T.** 15 South	**R.** 9 East

Conditions of Approval

1. General

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

   - 24 hours prior to cementing or testing casing
   - 24 hours prior to testing blowout prevention equipment
   - 24 hours prior to spudding the well
   - within 24 hours of any emergency changes made to the approved drilling program
   - prior to commencing operations to plug and abandon the well

   The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at (801) 538-5338
   - Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

5. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

6. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

7. Surface casing shall be cemented to the surface.

005

State of Utah

Department of Natural Resources

ROBERT L. MORGAN
Executive Director

Division of Oil, Gas & Mining

LOWELL P. BRAXTON
Division Director

OLENE S. WALKER
Governor

GAYLE F. McKEACHNIE
Lieutenant Governor

July 13, 2004

Jean Semborski
ConocoPhillips Company
P O Box 851
Price, UT 84501

Re: APD Rescinded – Utah 32-617D Sec. 32, T. 15S, R. 9E
Carbon County, Utah API No. 43-007-30922

Dear Ms. Semborski:

The Application for Permit to Drill (APD) for the subject well was approved by the Division of Oil, Gas and Mining (Division) on July 7, 2003. On July 13, 2004, you requested that the division rescind the state approved APD. No drilling activity at this location has been reported to the division. Therefore, approval to drill the well is hereby rescinded, effective July 13, 2004.

A new APD must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Whitney
Engineering Technician

cc: Well File
SITLA, Ed Bonner

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

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