

Operations Summary Report

Legal Well Name: INDIAN HILLS UNIT NO. 37 "Y" + 3?

Common Well Name: INDIAN HILLS UNIT NO. 37 "Y"

Spud Date: 12/19/2002

Event Name: ORIGINAL DRILLING

Start: 12/13/2002

End:

Contractor Name: MCVAY DRILLING

Rig Release:

Group:

Rig Name: MCVAY DRILLING

Rig Number: 4

Date	From - To	Hours	Code	Sub Code	Phase	Description of Operations
12/25/2002	16:00 - 19:00	3.00	WAIT	CEMT	DRLSUR	Wait on Cement
	19:00 - 20:30	1.50	TRIP	BIT	DRLSUR	TI w/ DP. Tagged @ 290'. Pumped 700 sks of Premuin Plus w/ 2% CalCl2. FL @ 80'. Did not circ. POOH w/ 3 stds of DP.
	20:30 - 23:30	3.00	WAIT	CEMT	DRLSUR	WOC
	23:30 - 00:00	0.50	CEMT	TJOB	DRLSUR	Tagged cement @ 165'. Pumped 300 sks of Premuin Plus w/ 3% CaCl2. FL @ 50'.
	00:00 - 02:30	2.50	WAIT	CEMT	DRLSUR	Wait on Cement
12/26/2002	02:30 - 03:00	0.50	CEMT	TJOB	DRLSUR	Top Job Cementing. Tagged @ 80'. Pumped 150 sks of Premuin w/ 3% CaCl2. FL @ 50'.
	03:00 - 06:00	3.00	WAIT	CEMT	DRLSUR	Wait on Cement. Thawing out HES lines @ 0600 hrs. (Pumped a total of 1150 sks. Top @ 80'. FL @ 50')
	06:00 - 07:00	1.00	CEMT	PLUG	DRLSUR	Thawed out water lines.
	07:00 - 07:15	0.25	CEMT	PLUG	DRLSUR	Pumped 150 sks of Premuin Plus w/ 3% CalC2.
	07:15 - 10:45	3.50	WAIT	CEMT	DRLSUR	Wait on Cement
12/27/2002	10:45 - 11:00	0.25	CEMT	PLUG	DRLSUR	Pumped 100 sks of Premuin Plus w/ 3% CalC2. Circ to surface. Filled cellar 3' with cement. RD HES.
	11:00 - 06:00	19.00	WAIT	OTHR	DRLSUR	Shut down for day.
	06:00 - 08:00	2.00	RIG	RDMO	RDMO	RD Rig equipment on rig floor & around drilling pits. <i>IHU #37-4 starts here</i>
	08:00 - 13:00	5.00	LOC	WORK	RDMO	Work on drilling pilot holes w/ rat hole machine to install new cellar.
	13:00 - 18:00	5.00	DRILL	AIR	RDMO	Installed new cellar.
12/28/2002	18:00 - 22:00	4.00	WELD	RRPL	RDMO	Drill out mouse hole & started drilling out conductor.
	22:00 - 02:00	4.00	DRILL	AIR	RDMO	Welded on rat hole machine to repair air leak.
	02:00 - 02:30	0.50	CEMT	OTHR	RDMO	Finish drilling out conductor & drilling out rat hole.
	02:30 - 06:00	3.50	WAIT	CEMT	RDMO	Cemented conductor pipe w/ 5 yards of ready mix.
	06:00 - 08:00	2.00	WELD	WLHD	MIRU	Wait on Cement
12/29/2002	08:00 - 08:30	0.50	SAFETY	SMTG	MIRU	Cut & weld on 13 5/8" 3M slip on flange to conductor pipe.
	08:30 - 09:00	0.50	NUND	UFwL	MIRU	Held Safety Meeting w/ rig hands & truck drivers.
	09:00 - 13:30	4.50	RIG	SKID	MIRU	N/U surface stack on conductor pipe before skidding rig.
	13:30 - 20:00	6.50	RIG	MOB	MIRU	Skid Rig or Service Unit
	20:00 - 06:00	10.00	WAIT	CEMT	DRLCN2	R/U equipment & rig up rig floor. Weld up flow line & did minor repairs needed.
12/30/2002	06:00 - 08:15	2.25	CHECK	SURF	DRLSUR	Wait on Cement. Letting cement on conductor heal good before start drilling w/ air. (BHA picked up except for Hammer which will be here first thing in the morning to spud.)
	08:15 - 08:45	0.50	EQUIP	PEQP	DRLSUR	Perform Check of Surface Equipment. Checked compressor.
	08:45 - 09:15	0.50	SAFETY	SMTG	DRLSUR	Pick up hammer tool w/ 12 3/8" Hammer bit & made up on BHA.
	09:15 - 13:00	3.75	DRILL	HAMR	DRLSUR	Safety Meeting
	13:00 - 13:15	0.25	SURV	TOTC	DRLSUR	Spud in w/ 12 3/8" hammer bit @ 09:15AM . Hammer Drill w/ mist.
12/30/2002	13:15 - 19:30	6.25	DRILL	HAMR	DRLSUR	Survey with non-mag TOTCO Tools. Single shot.
	19:30 - 20:15	0.75	SURV	TOTC	DRLSUR	Hammer Drill
	20:15 - 01:15	5.00	DRILL	HAMR	DRLSUR	Survey with non-mag TOTCO Tools. Single shot.
	01:15 - 01:45	0.50	EQUIP	REQP	DRLSUR	Hammer Drill. Started getting some fluid for returns.
	01:45 - 03:15	1.50	DRILL	HAMR	DRLSUR	Changed out rotating rubber
12/30/2002	03:15 - 03:30	0.25	SURV	TOTC	DRLSUR	Hammer Drill
	03:30 - 06:00	2.50	DRILL	HAMR	DRLSUR	Survey with non-mag TOTCO Tools
	06:00 - 06:30	0.50	CIRC	CLN	DRLSUR	Hammer Drill
	06:30 - 07:30	1.00	TRIP	BHA	DRLSUR	Blow well c w/ air.lean
	07:30 - 08:30	1.00	TRIP	BBHD	DRLSUR	Trip for BHA
12/30/2002	08:30 - 09:15	0.75	TRIP	BIT	DRLSUR	L/D hammer tool & bit. Picked up used 12 1/4" bit w/ shock tool & 3 point reamer.
	09:15 - 09:30	0.25	TRIP	WSHR	DRLSUR	TIH w/ 12 1/4" bit on shock tool w/ 3 point reamer above 8" non-mag collar.
						Installed rotating rubber & washed down 35' to btm. No fill.